



**New York
State College of Agriculture
At Cornell University
Ithaca, N. Y.**

Library

@
TA5
L94

LUFKIN

MEASURING TAPES RULES AND MECHANICAL TOOLS



**GENERAL CATALOG, NUMBER 11
TAPES, MEASURING.
SUPPLY SCHEDULE
TREASURY DEPT., PROCUREMENT DIV.
Class 41, Tools, Hand.**

Item

No. 41-T-160.—A.

January 1st to December 31st, 1935.

**This Catalog, pages 8 to 58 inc., and pages
118A, B C & D covers:**

Steel Tapes.

Stainless Steel Tapes.

Steel Tape-Rules.

Metallic & Other Woven Tapes.

Tape Accessories.

LUFKIN
MEASURING TAPES,
RULES AND
MECHANICAL TOOLS

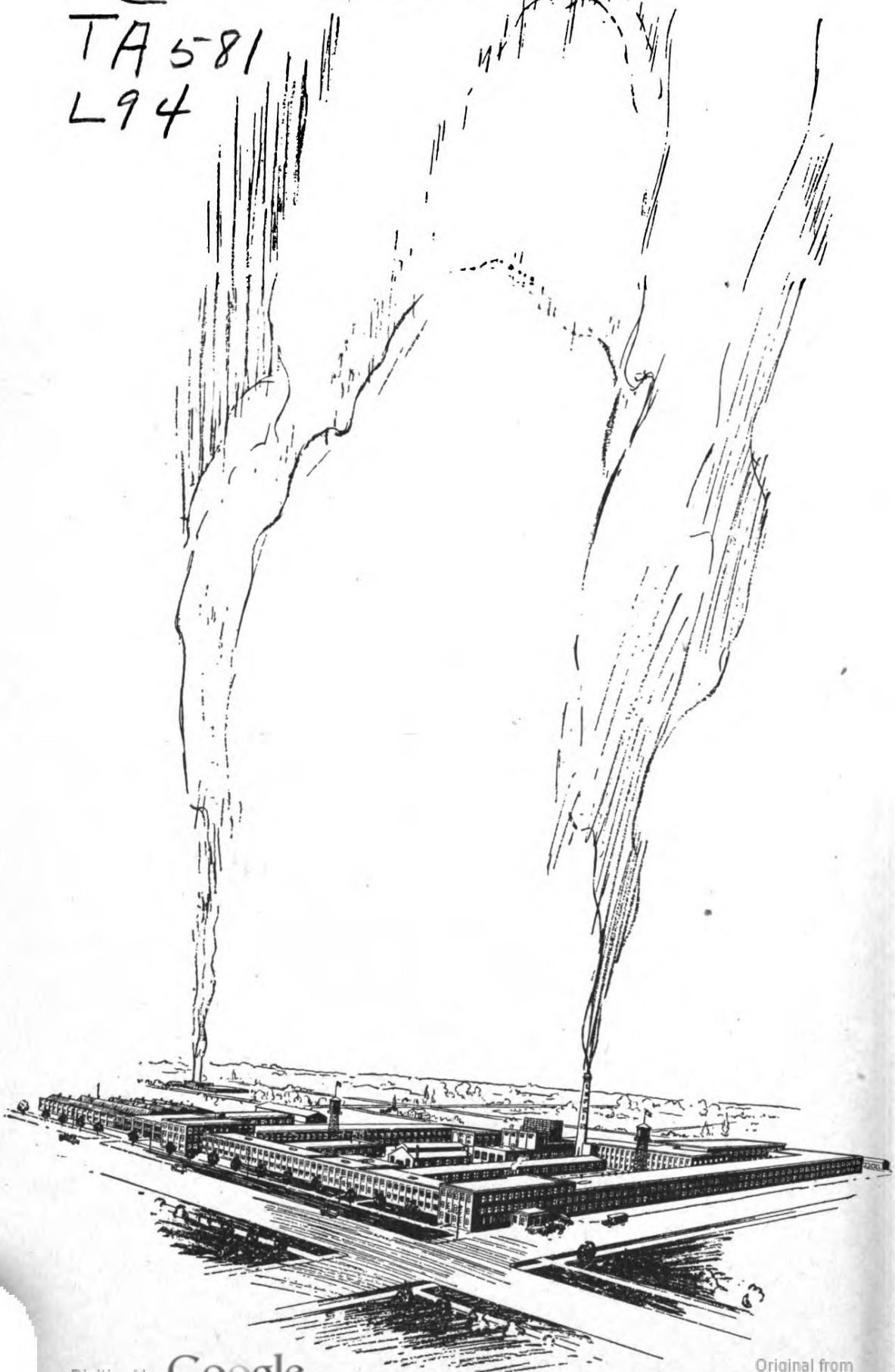


MANUFACTURED BY
THE LUFKIN RULE Co.
SAGINAW, MICHIGAN, U.S.A.
NEW YORK LONDON, ENGLAND
106-110 Lafayette St. 61 Shoe Lane
CANADIAN FACTORY
THE LUFKIN RULE Co. of CANADA, LTD.
WINDSOR, ONTARIO



@
TA 581
L94

@ 80648



Introduction

The Lufkin Rule Company, for over forty years has made Measuring Devices. It has steadily grown and has become the world's largest manufacturer in this line.

This company has been the pioneer in the development of many of its products, and the leader in the noteworthy improvements in its field over that whole period. Its goods are sold in all markets. The organizers of the original company are the heads and in active charge of the corporation of today.

THE LUFKIN RULE Co.



This catalog represents the developments of over forty years in Measuring Instruments and kindred lines by The Lufkin Rule Company

Not only in America, but wherever measurements are taken, our goods are the recognized standard of accuracy.

We are prepared to mark our Tapes, Rules, etc., in the regular measurements of all countries.

They have established and maintain the highest standards of quality

Our lines of Tapes and Rules are most complete; we have been leaders always in the development of new items and improvement of the old to properly meet the needs of the consumer. We offer the best of service.

The goods and the progressive general policies of The Lufkin Rule Company have made it the world's largest manufacturer of Measuring Devices.

THE manufacture of Fine Mechanical Tools, in the Small Tool Division, is our latest development. We have entered into this in a large way and aim to make each tool the best of its kind on the market. The distinctive organization of this Division is described in Section Three of this Catalog.

All goods are made complete in our own plants. Raw materials are selected and tested to assure their being best for the purpose; skilled mechanics are employed in the manufacture; and parts, as well as completed articles, are thoroughly inspected. Special attention is given to packing.

LUFKIN goods are carried in stock by jobbers, by hardware and supply dealers, tool stores, engineering, technical and professional supply houses, stationery and other stores in all parts of the world.

Quite apart from our regular stock goods, we make Tapes and Rules with customer's advertising upon them. For details of this Advertising Specialty Line and its separate Catalog, see last pages of this book.

For the convenience of the trade and the public
this catalog is divided into sections, as follows:

Section One
STEEL MEASURING TAPES

Section Two
WOVEN MEASURING TAPES

Section Three
MECHANICAL TOOLS
(Small Tool Division)

Section Four
BOXWOOD RULES

Section Five
SPRING JOINT RULES

Section Six
MISCELLANEOUS WOOD RULES
ET CETERA

Section Seven
LUMBER RULES
ET CETERA

Section One

STEEL MEASURING TAPES

OUR Steel Tapes are universally recognized as the standard of accuracy, and are a most highly developed and specialized line. We make them in patterns and grades, lengths and graduations best suited to every need.

The lines are of highest grade tape steel, specially rolled for the purpose. Among other features they have *Instantaneous* Readings and "Nubian" Finish, described below. The cases, frames and reels are of most approved construction, sturdy and reliable.

LUFKIN Steel Tapes are made to bench standards certified accurate by the United States Bureau of Standards, Washington, D. C., which Bureau, for a nominal fee, will test and issue report on any tape, showing its tension and temperature of accuracy. (Such Government test we recommend for tapes to be used on very precise work). The temperature standard for steel tapes is 68 degrees Fahrenheit (equal to 20 degrees centigrade). The coefficient of expansion of steel tapes as determined by the United States Bureau of Standards is 0.000 006 45 per degree Fahrenheit, amounting on a 100 foot tape to 0.007 74 inch per degree. The standard tension for tapes of ordinary lengths when supported throughout is 10 lbs. avoirdupois (for metric tapes, 5 kilograms).

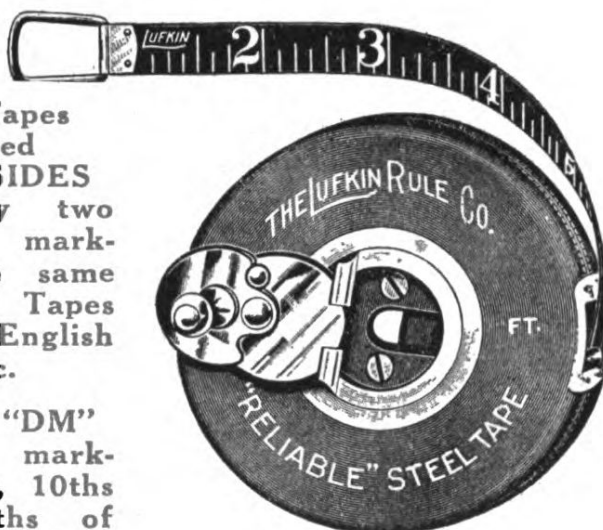
Instantaneous READINGS



Our Steel Tapes have *Instantaneous* Readings, a great improvement in numbering, of which we are the originators. The above illustration conveys the idea. Briefly described, it is the last preceding foot number repeated at each inch or tenth throughout the tape, in small, yet easily read figures. This keeps the total reading directly before the eye, eliminates the chance of error in running-back to the last foot, and saves time. The same system is used on our metric steel tapes.

"NUBIAN" FINISH

This is the standard finish of our Steel Tapes. It consists of a dead black background, against which the raised lines and figures in the natural steel color are in marked contrast, making them most legible. This finish wears and looks well, and resists rust.



**Steel Tapes
Marked
BOTH SIDES**
with any two
standard mark-
ings take same
price as Tapes
marked English
and Metric.

SUFFIX "DM"
Indicates mark-
ings Feet, 10ths
and 100ths of
Feet on one side;
Metric on other
side.

PREFIX "S"
Indicates STAIN-
LESS STEEL
Tape Line. See
extra charge bot-
tom page 3 of
Price List.

"RELIABLE" STEEL TAPES

Instantaneous Readings.

"Nubian" Finish.

THE FINEST AND BEST TAPE IN THE WORLD

This is a tape suitable for all general measuring work. It is made throughout of specially selected materials, and in design, construction and finish represents the best of our long experience in the making of tapes.

Line is distinctly marked. Case is of cordovan-brown genuine leather, handsomely finished. It is closely hand-stitched and has steel liner heavily brass plated. Trimmings are nickel plated. The winding handle is double-folding flush pattern, opened by pressing on opposite side. It has extension finger hold, affording most firm grip. Measurements guaranteed accurate.

WITH THREE-EIGHTHS INCH TAPES

Marked feet, inches and 8ths of inches, one side only

No.	200	201	203	204	205	206	207
Length, feet	25	33	50	66	75	100	150
Weight each, ozs.	9	10	13	15	18	21	32
Price, each	\$5.45	\$6.30	\$8.60	\$10.90	\$12.50	\$15.00	\$22.00

Marked feet, 10ths and 100ths of feet, one side only

No.	200D	201D	203D	204D	205D	206D	207D
Length, feet	25	33	50	66	75	100	150
Weight each, ozs.	9	10	13	15	18	21	32
Price, each	\$5.45	\$6.30	\$8.60	\$10.90	\$12.50	\$15.00	\$22.00

Marked metric only, one side only

(First decimetre in mm., balance of length in cm.)

No.	200 1/2 M	201M	203M	204M	205 1/2 M	206M	207M
Length, metres	5	7 1/2	10	15	20	25	30
Weight each, ozs.	8	10	13	15	19	21	35
Price, each	\$5.25	\$6.30	\$8.60	\$10.90	\$13.40	\$15.00	\$24.00

Marked metric and English

One side metric (first decimetre in mm., balance of length in cm.)

One side English (feet, inches and 8ths of inches)

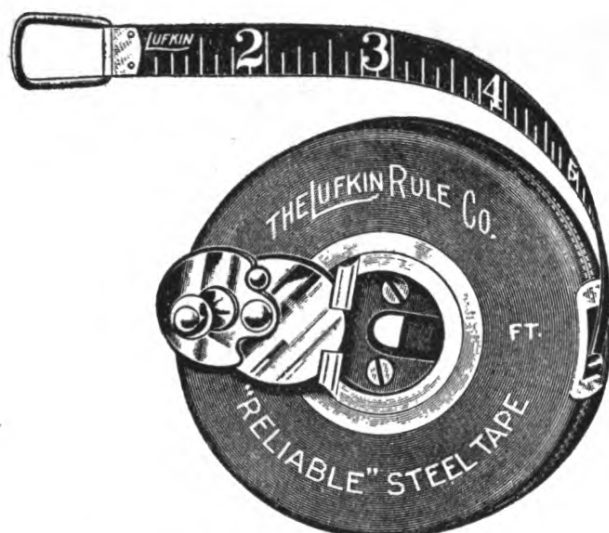
No.	200 1/2 ME	201ME	203ME	204ME	205 1/2 ME	206ME	207ME
No.	200EM	201EM	203EM	204EM	205EM	206EM	....
Lgth. metres.	5	7 1/2	10	15	20	25	30
Lgth. feet.	15	25	33	50	66	75	82
Wt. ea., ozs.	8	9	10	13	15	18	19
Price, each	\$5.60	\$6.00	\$7.00	\$9.60	\$12.25	\$14.00	\$15.00
							\$17.00
							\$27.00

(ME tapes are assembled in case with metric on front, English on back)
(EM tapes are assembled in case with English on front, metric on back)

Packing: One in a box

NOTE—We no longer regularly list "Reliable" tapes marked links on back, as this graduation is not extensively used. The prices of No. 200 and No. 200D series tapes above are reduced accordingly. If links on back are wanted, add 1c per foot to above list prices. Specify as "200L", "200DL", etc.

"Reliable" tapes marked feet, inches and 16ths, price, 5% extra.



"RELIABLE" STEEL TAPES (HALF INCH WIDE)

Instantaneous Readings.

"Nubian" Finish.

A TAPE OF THE HIGHEST GRADE AND EXTRA DURABILITY

Like the "Reliable" tapes of other widths, this one stands foremost among all measuring tapes. It is made from most choice materials and by the best methods known.

This line, being $\frac{1}{2}$ inch wide, has extra durability. Its markings are clear and very legible. The cordovan-brown genuine leather case is closely hand-stitched and nicely finished. It has heavily brass plated steel liner and all trimmings are nickel plated. The double-folding flush handle is opened by pressing on opposite side and has extension finger hold, giving a firm grip for winding. Measurements guaranteed accurate.

WITH ONE-HALF INCH TAPES

Marked feet, inches and 8ths of inches, one side only

No.	300	301	303	304	305	306	307
Length, feet	25	33	50	66	75	100	150
Weight each, ozs.	11	13	16	20	23	27	40
Price, each	\$6.00	\$7.00	\$9.60	\$12.25	\$14.00	\$17.00	\$25.00

Marked feet, 10ths and 100ths of feet, one side only

No.	300D	301D	303D	304D	305D	306D	307D
Length, feet	25	33	50	66	75	100	150
Weight each, ozs.	11	13	16	20	23	27	40
Price, each	\$6.00	\$7.00	\$9.60	\$12.25	\$14.00	\$17.00	\$25.00

Marked metric only, one side only

(First decimetre in mm., balance of length in cm.)

No.	300 $\frac{1}{2}$ M	301M	303M	304M	305 $\frac{1}{2}$ M	306M	307M
Length, metres	5	10	15	20	25	30	50
Weight each, ozs.	10	13	16	20	24	27	43
Price, each	\$5.75	\$7.00	\$9.60	\$12.25	\$15.00	\$17.00	\$28.00

Marked metric and English

One side metric (first decimetre in mm., balance of length in cm.)

One side English (feet, inches and 8ths of inches)

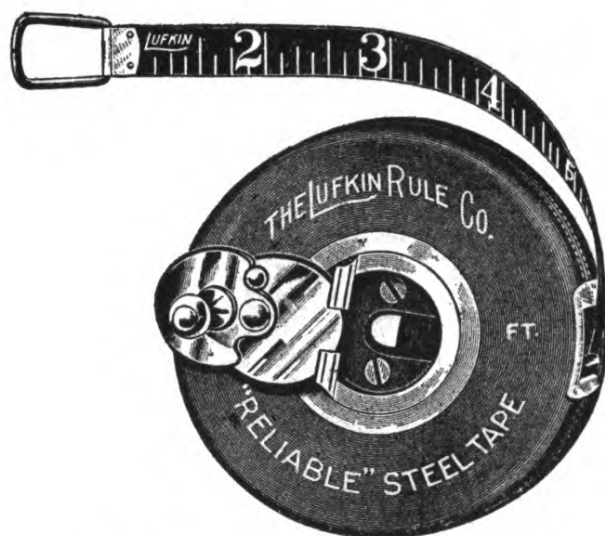
No.	300 $\frac{1}{2}$ ME	301ME	303ME	304ME	305 $\frac{1}{2}$ ME	306ME	307ME
No.	300EM	301EM	303EM	304EM	305EM	306EM	...
Lgth. metres	5	7 $\frac{1}{2}$	10	15	20	22	25
Lgth. feet ..	15	25	33	50	66	75	82
Wt. ea., ozs.	10	11	13	16	20	23	24
Price, ea.	\$6.00	\$6.50	\$7.70	\$10.60	\$13.60	\$15.50	\$16.80
						\$17.00	\$19.00
							\$31.00

(ME tapes are assembled in case with metric on front, English on back)
(EM tapes are assembled in case with English on front, metric on back)

Packing: One in a box

NOTE—We no longer regularly list "Reliable" tapes marked links on back, as this graduation is not extensively used. The prices of No. 300 and No. 300D series tapes above are reduced accordingly. If links on back are wanted, add 1¢ per foot to above list prices. Specify as "300L", "300DL", etc.

"Reliable" tapes marked feet, inches and 16ths, price, 5% extra.



"RELIABLE" STEEL TAPES (EXTRA WIDE)

Instantaneous Readings. "Nubian" Finish.

**EXTRA STRENGTH AND LARGE, MOST LEGIBLE FIGURES
ARE FEATURES OF THESE WIDE TAPES**

These are the widest steel tapes we make. Being "Reliable" brand, they are of the very finest materials and construction.

While in thickness identically same as the tapes on previous pages, the greater width gives these lines more body. It also accommodates larger figures. The cases are of cordovan-brown genuine leather, closely hand-stitched and well finished. They have heavily brass plated steel liner and nickel plated trimmings. Double-folding flush handle is opened by pressing on opposite side, and has extension finger hold, affording good grip for winding. Measurements guaranteed accurate.

WITH FIVE-EIGHTHS INCH TAPES

Marked one side only					
Feet, inches and 8ths of inches....No.	341	343	344	345	346
Feet, 10ths and 100ths of feet.....No.	341D	343D	344D	345D	346D
Length, feet	33	50	66	75	100
Weight each, ozs.	15	19	24	27	31
Price, each	\$8.40	\$11.40	\$14.70	\$16.70	\$20.40

Marked metric and English					
One side metric (first decimetre in mm., balance of length in cm.)					
One side English (feet, inches and 8ths of inches)					
No.	341ME	343ME	344ME	345ME	346ME
Length, metres	10	15	20	22	25
Length, feet	33	50	66	75	82
Weight each, ozs.	15	19	24	27	28
Price, each	\$9.00	\$12.40	\$16.00	\$18.20	\$19.60

WITH THREE-QUARTERS INCH TAPES

Marked one side only					
Feet, inches and 8ths of inches....No.	351	353	354	355	356
Feet, 10ths and 100ths of feet.....No.	351D	353D	354D	355D	356D
Length, feet	33	50	66	75	100
Weight, each, ozs.	18	22	27	30	33
Price, each	\$9.40	\$12.90	\$16.50	\$18.70	\$23.00

Marked metric and English					
One side metric (first decimetre in mm., balance of length in cm.)					
One side English (feet, inches and 8ths of inches)					
No.	351ME	353ME	354ME	355ME	356ME
Length, metres	10	15	20	22	25
Length, feet	33	50	66	75	82
Weight each, ozs.	18	22	27	30	31
Price, each	\$10.00	\$13.90	\$17.80	\$20.00	\$21.40

Packing: One in a box

NOTE—We no longer regularly list "Reliable" tapes marked links on back, as this graduation is not extensively used. The prices of No. 341, No. 341D, and No. 351 and No. 351D series tapes above, are reduced accordingly. If links on back are wanted, add 1c per foot to above list prices. Specify as "341L", "341DL", etc.



"RELIABLE JUNIOR" STEEL TAPES

Instantaneous Readings.

"Nubian" Finish.

THE FINEST, LIGHT WEIGHT, LONG STEEL TAPE MADE;
A MINIATURE "RELIABLE" TAPE

This, while a $\frac{1}{4}$ inch wide light weight steel tape, will give good service. Though small and convenient to carry anywhere, it is long enough to take usual measurements. It is about one-half the size and weight of the $\frac{3}{8}$ inch wide "Reliable" and embodies its improved features.

Case is of cordovan-brown genuine leather, hand-stitched, with brass plated steel liner and nickel plated trimmings. Double-folding flush winding handle is opened by pressing on opposite side, and has extension finger hold. Measurements guaranteed accurate.

WITH LIGHT WEIGHT, ONE-QUARTER INCH TAPES

Marked feet, inches and 16ths of inches, one side only

No.	100	101	103	104	105	106
Length, feet	25	33	50	66	75	100
Weight each, ozs.	5	6	7	9	10	12
Price, each	\$5.10	\$5.65	\$7.70	\$9.70	\$11.10	\$13.40

Marked feet, 10ths and 100ths of feet, one side only

No.	100D	101D	103D	104D	105D	106D
Length, feet	25	33	50	66	75	100
Weight each, ozs.	5	6	7	9	10	12
Price, each	\$5.10	\$5.65	\$7.70	\$9.70	\$11.10	\$13.40

Marked metric only, one side only

(First decimetre in mm., balance of length in cm.)

No.	100 $\frac{1}{2}$ M	101M	103M	104M	105 $\frac{1}{2}$ M	106M
Length, metres	5	10	15	20	25	30
Weight each, ozs.	4	6	7	9	11	12
Price, each	\$4.80	\$5.65	\$7.70	\$9.70	\$11.60	\$13.40

Marked metric and English

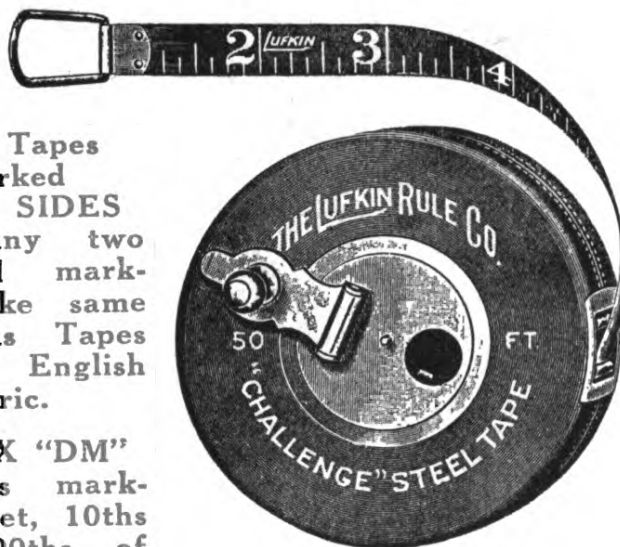
One side metric (first decimetre in mm., balance of length in cm.)

One side English (feet, inches and 16ths of inches)

No.	100 $\frac{1}{2}$ ME	101ME	103ME	104ME	105 $\frac{1}{2}$ ME	106ME
No.	100EM	101EM	103EM	104EM	105EM	106EM
Lgth., metres.	5	7 $\frac{1}{2}$	10	15	20	25
Length, feet.	15	25	33	50	66	82
Wt. each, ozs.	4	5	6	7	9	10
Price, each.	\$5.10	\$5.60	\$6.30	\$8.70	\$11.00	\$12.60
						\$13.25
						\$15.40

(ME tapes are assembled in case with metric on front, English on back)
(EM tapes are assembled in case with English on front, metric on back)

Packing: One in a box



Steel Tapes
Marked
BOTH SIDES
with any two
standard mark-
ings take same
price as Tapes
marked English
and Metric.

SUFFIX "DM"
Indicates mark-
ings Feet, 10ths
and 100ths of
Feet on one side;
Metric on other
side.

"CHALLENGE" STEEL TAPES

Instantaneous Readings.

"Nubian" Finish.

**FOR YEARS THIS HAS BEEN THE MOST WIDELY USED
GENERAL PURPOSE STEEL TAPE**

Particularly recommended for all kinds of general measuring; has long been especially popular in construction and similar work. Even where subject to continuous and hard use the "Challenge" gives satisfactory service.

Line of highest grade tape steel with distinct markings. Case of selected genuine russet leather, hand-stitched, and with substantial plated steel liner. Folding flush handle is opened by pressing pin on opposite side. Trimmings nickel plated. Measurements guaranteed accurate.

WITH THREE-EIGHTHS INCH TAPES

Marked feet, inches and 8ths of inches, one side only

No.	260	261	263	264	265	266	267
Length, feet	25	33	50	66	75	100	150
Weight each, ozs.	8	9	11	14	17	21	31
Price, each	\$4.90	\$5.30	\$6.00	\$7.50	\$7.80	\$10.20	\$17.00

Marked feet, 10ths and 100ths of feet, one side only

No.	260D	261D	263D	264D	265D	266D	267D
Length, feet	25	33	50	66	75	100	150
Weight each, ozs.	8	9	11	14	17	21	31
Price, each	\$4.90	\$5.30	\$6.00	\$7.50	\$7.80	\$10.20	\$17.00

Marked metric only, one side only

(First decimetre in mm., balance of length in cm.)

No.	260 1/2 M	261M	263M	264M	265 1/2 M	266M	267M
Length, metres ..	5	10	15	20	25	30	50
Weight each, ozs.	7	9	11	14	18	20	34
Price, each	\$4.30	\$5.30	\$6.00	\$7.50	\$8.50	\$10.20	\$18.00

Marked metric and English

One side metric (first decimetre in mm., balance of length in cm.)

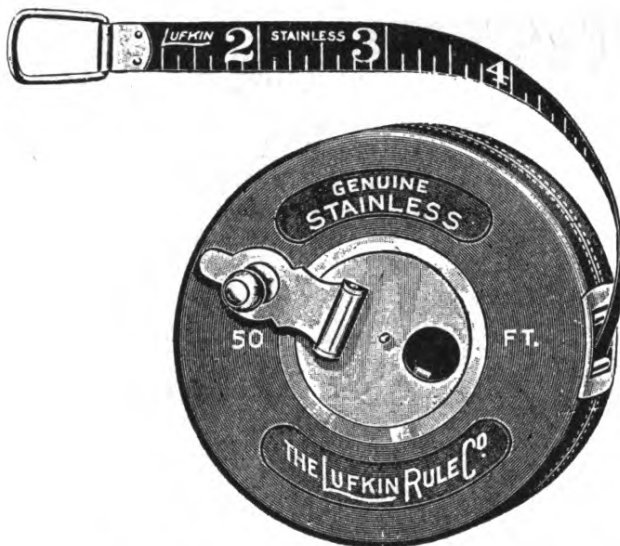
One side English (feet, inches and 8ths of inches)

No.	260 1/2 ME	261ME	263ME	264ME	265 1/2 ME	266ME	267ME
No.	260EM	261EM	263EM	264EM	265EM	266EM	....
Length, metres...	5	7 1/2	10	15	20	22	25
Length, feet...	15	25	33	50	66	75	82
Wt. each, ozs...	7	8	9	11	14	17	18
Price, each	\$4.60	\$5.40	\$6.00	\$7.00	\$8.80	\$9.30	\$10.15
							\$12.20
							\$21.00

(ME tapes are assembled in case with metric on front, English on back)
(EM tapes are assembled in case with English on front, metric on back)

Packing: One in a box

**NOTE—"Challenge" tapes marked feet, inches and 16ths, price, 5% extra.
For 1/2 inch wide "Challenge" tapes, see page 13.**



STAINLESS STEEL TAPES

("Challenge" Pattern)

RUST PROOF

NON-CORROSIVE

STAINLESS TAPES ARE IDEAL FOR USE WHEREVER CONDITIONS
COMMONLY CAUSING RUST OR CORROSION ARE PRESENT

The lines in these tapes are of standard weight and of Genuine Stainless Steel, rust proof and non-corrosive. This material also is of suitable temper for tapes, in that respect closely approaching ordinary tape steel. Our Stainless Steel Tapes hold their shape well, far better than lines made of other rust proof materials such as phosphor bronze and monel metal. The tapes below have *Instantaneous* Readings, and "Nubian" Finish, aids to accurate and quick reading.

The cases are of selected genuine leather, hand-stitched, and with substantial plated steel liners. Folding flush handle is opened by pressing pin on opposite side. Trimmings nickel plated. Measurements guaranteed accurate.

WITH THREE-EIGHTHS INCH STAINLESS TAPES

Marked feet, inches and 8ths of inches, one side only

No.....	S-260	S-263	S-265	S-266
Length, feet	25	50	75	100
Price, each.....	\$6.65	\$10.00	\$12.90	\$15.00

Marked feet, 10ths and 100ths of feet, one side only

No.....	S-260D	S-263D	S-265D	S-266D
Length, feet	25	50	75	100
Price, each.....	\$6.65	\$10.00	\$12.90	\$15.00

WITH ONE-HALF INCH STAINLESS TAPES

Marked feet, inches and 8ths of inches, one side only

No.....	S-360	S-363	S-365	S-366
Length, feet	25	50	75	100
Price, each.....	\$7.50	\$11.25	\$15.50	\$20.00

Marked feet, 10ths and 100ths of feet, one side only

No.....	S-360D	S-363D	S-365D	S-366D
Length, feet	25	50	75	100
Price, each.....	\$7.50	\$11.25	\$15.50	\$20.00

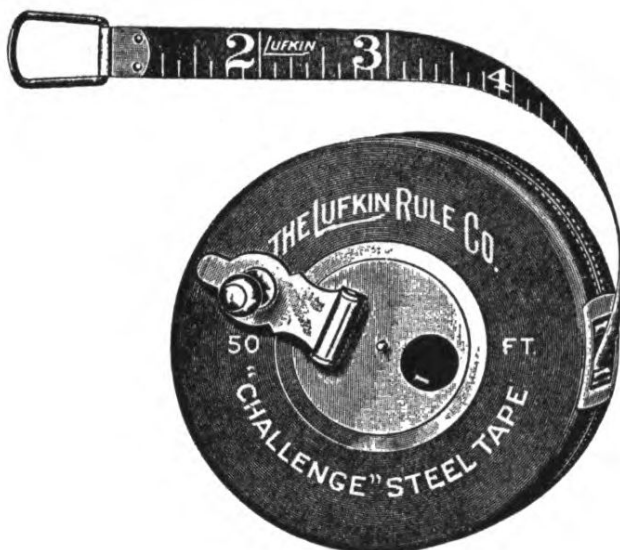
Packing: One in a box

NOTE:—We can supply $\frac{3}{8}$ " and $\frac{1}{2}$ " wide Stainless Steel Tapes also in "Reliable" pattern leather cases, and in metal arm frames, and the $\frac{3}{8}$ " tape in "Rival" pattern metal case.

Stainless Steel Tapes marked BOTH SIDES with any two standard markings. Add 2 cents per foot to Catalog List Prices.

Suffix "DM" means marked feet, 10ths and 100ths of feet on side; metric other side.

Suffix "EM" means marked feet, inches



"CHALLENGE" STEEL TAPES (HALF-INCH WIDE)

Instantaneous Readings.

"Nubian" Finish.

EXTRA DURABLE, THEREFORE POPULAR FOR HEAVY DUTY,
AS HIGHWAY WORK, AND AROUND MILLS, ETC.

Same as the $\frac{3}{8}$ inch "Challenge" on page 12, but with line $\frac{1}{2}$ inch wide. This extra width makes the tape somewhat sturdier. These $\frac{1}{2}$ inch tapes are suitable for practically any work to which $\frac{3}{8}$ inch "Challenge" tapes are put.

Line of highest grade tape steel, distinctly marked. Case of selected genuine russet leather, hand-stitched, and with substantial plated steel liner. Folding flush handle is opened by pressing pin on opposite side. Trimmings nickel plated. Measurements guaranteed accurate.

WITH ONE-HALF INCH TAPES

Marked feet, inches and 8ths of inches, one side only

No.	360	361	363	364	365	366	367
Length, feet	25	33	50	66	75	100	150
Weight each, ozs.	9	11	14	17	21	25	38
Price, each	\$5.60	\$6.00	\$6.75	\$8.30	\$9.00	\$11.25	\$19.00

Marked feet, 10ths and 100ths of feet, one side only

No.	360D	361D	363D	364D	365D	366D	367D
Length, feet ...	25	33	50	66	75	100	150
Weight each, ozs.	9	11	14	17	21	25	38
Price, each	\$5.60	\$6.00	\$6.75	\$8.30	\$9.00	\$11.25	\$19.00

Marked metric only, one side only

(First decimetre in mm., balance of length in cm.)

No.	360 $\frac{1}{2}$ M	361M	363M	364M	365 $\frac{1}{2}$ M	366M	367M
Length, metres..	5	10	15	20	25	30	50
Weight each, ozs.	8	11	14	17	22	25	41
Price, each ...	\$4.75	\$6.00	\$6.75	\$8.30	\$10.00	\$11.25	\$21.00

Marked metric and English

One side metric (first decimetre in mm., balance of length in cm.)

One side English (feet, inches and 8ths of inches)

No.	360 $\frac{1}{2}$ ME	361ME	363ME	364ME	365 $\frac{1}{2}$ ME	366ME	367ME
No.	360EM	361EM	363EM	364EM	365EM	366EM	...
Length, metres	5	7 $\frac{1}{2}$	10	15	20	25	30
Length, feet..	15	25	33	50	66	75	82
Wt. each, ozs..	8	9	11	14	17	21	22
Price, each...	\$5.00	\$6.10	\$6.70	\$7.75	\$9.60	\$10.50	\$11.65
							\$13.25
							\$24.50

(ME tapes are assembled in case with metric on front, English on back)
(EM tapes are assembled in case with English on front, metric on back)

Packing: One in a box

NOTE—"Challenge" tapes marked feet, inches and 16ths, price, 5% extra.



"CHALLENGE JUNIOR" STEEL TAPES

Instantaneous Readings.

"Nubian" Finish.

**A LONG STEEL TAPE, YET OF SIZE AND WEIGHT NOT INCONVENIENT
OR BURDENSOME TO CARRY ANYWHERE**

A counterpart of the "Challenge", but about one-half its size and weight. At the same time this "Junior" pattern is well built and with reasonable care will give years of good service.

Line of highest grade tape steel, distinctly marked. Case of selected genuine russet leather, hand-stitched, with plated steel liner. Folding flush handle is opened by pressing pin on opposite side. Trimmings nickel plated. Measurements guaranteed accurate.

WITH LIGHT WEIGHT, ONE-QUARTER INCH TAPES

Marked feet, inches and 16ths of inches, one side only

No.	1260	1261	1263	1264	1265	1266
Length, feet	25	33	50	66	75	100
Weight each, ozs.	4	5	7	8	9	12
Price, each	\$4.70	\$5.00	\$5.70	\$7.10	\$7.50	\$9.60

Marked feet, 10ths and 100ths of feet, one side only

No.	1260D	1261D	1263D	1264D	1265D	1266D
Length, feet	25	33	50	66	75	100
Weight each, ozs.	4	5	7	8	9	12
Price, each	\$4.70	\$5.00	\$5.70	\$7.10	\$7.50	\$9.60

Marked metric only, one side only

(First decimetre in mm., balance of length in cm.)

No.	1260 ½ M	1261M	1263M	1264M	1265 ½ M	1266M
Length, metres	5	10	15	20	25	30
Weight each, ozs.	3	5	7	8	10	12
Price, each	\$4.40	\$5.00	\$5.70	\$7.10	\$8.20	\$9.60

Marked metric and English

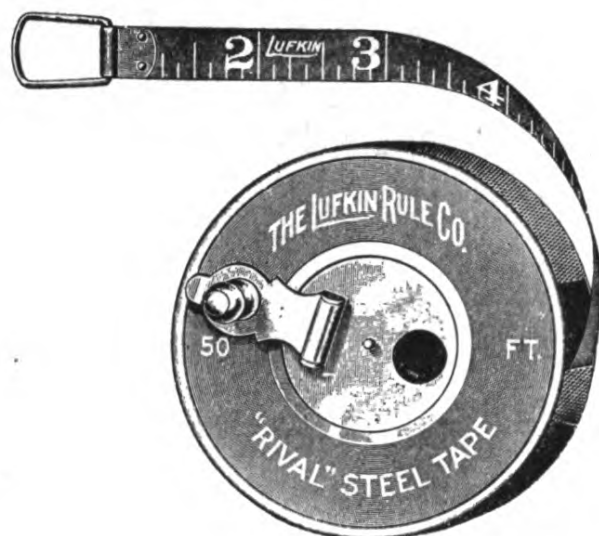
One side metric (first decimetre in mm., balance of length in cm.)

One side English (feet, inches and 16ths of inches)

No.	1260 ½ ME	1261ME	1263ME	1264ME	.....	1265 ½ ME	1266ME	
No.	1260EM	1261EM	1263EM	1264EM	1265EM	.....	1266EM	
Length, metres..	5	7 ½	10	15	20	22	25	30
Length, feet....	15	25	33	50	66	75	82	100
Weight each, ozs.	3	4	5	7	8	9	10	12
Price, each.....	\$4.70	\$5.20	\$5.60	\$6.70	\$8.40	\$9.00	\$9.80	\$11.60

(ME tapes are assembled in case with metric on front, English on back)
(EM tapes are assembled in case with English on front, metric on back)

Packing: One in a box



"RIVAL" STEEL TAPES

Instantaneous Readings. "Nubian" Finish.

A GENERAL PURPOSE STEEL TAPE IN METAL CASE

Some people prefer a metal to a leather case, and for certain classes of work it is best. We recommend the "Rival" for use around steel and tube mills, or wherever a tape case comes much in contact with oil, grease or grit.

Line of highest grade tape steel, distinctly marked. Case of steel, nickel plated, and with knurled edge, which affords a firm grip. Folding flush handle is opened by pressing pin on opposite side. Measurements guaranteed accurate.

WITH THREE-EIGHTHS INCH TAPES

Marked feet, inches and 8ths of inches, one side only

No.	240	241	243	244	245	246
Length, feet	25	33	50	66	75	100
Weight each, ozs.	8	9	11	14	15	20
Price, each	\$4.45	\$4.80	\$5.40	\$6.85	\$7.20	\$9.25

Marked feet, 10ths and 100ths of feet, one side only

No.	240D	241D	243D	244D	245D	246D
Length, feet	25	33	50	66	75	100
Weight each, ozs.	8	9	11	14	15	20
Price, each	\$4.45	\$4.80	\$5.40	\$6.85	\$7.20	\$9.25

Marked metric only, one side only (First decimetre in mm., balance of length in cm.)

No.	240 1/2 M	241M	243M	244M	245 1/2 M	246M
Length, metres	5	10	15	20	25	30
Weight each, ozs.	7	9	11	14	16	20
Price, each	\$4.00	\$4.80	\$5.40	\$6.85	\$7.90	\$9.25

Marked metric and English

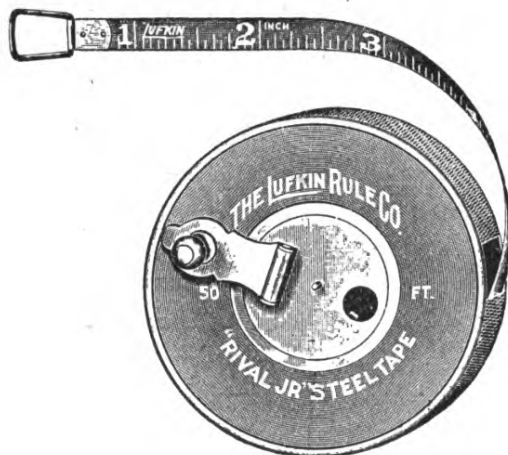
One side metric (first decimetre in mm., balance of length in cm.)
One side English (feet, inches and 8ths of inches)

No.	240 1/2 ME	241ME	243ME	244ME	245 1/2 ME	246ME
No.	240EM	241EM	243EM	244EM	245EM	246EM
Length, metres... ..	5	7 1/2	10	15	20	25
Length, feet.....	15	25	33	50	66	82
Wt. each, ozs....	7	8	9	11	14	16
Price, each.....	\$4.30	\$5.00	\$5.45	\$6.40	\$8.20	\$9.50
						\$11.25

(ME tapes are assembled in case with metric on front, English on back)
(EM tapes are assembled in case with English on front, metric on back)

Packing: One in a box

NOTE—"Rival" tapes marked feet, inches and 16ths, price, 5% extra.



"RIVAL JUNIOR" STEEL TAPES

Instantaneous Readings.

"Nubian" Finish.

**A COMPACT, LIGHT WEIGHT LONG STEEL TAPE, CONVENIENT
TO CARRY IN THE POCKET ANYWHERE**

The "Rival Junior" is a miniature "Rival" tape. It has an exceptionally neat appearance, and, while small, is of good construction and with reasonable care holds up well.

Line of highest grade tape steel, distinctly marked. Case of steel, nickel plated, and with knurled edge, affording good grip. Folding flush handle is opened by pressing pin on opposite side. Measurements guaranteed accurate.

WITH LIGHT WEIGHT, ONE-QUARTER INCH TAPES

Marked feet, inches and 16ths of inches, one side only

No.	1240	1241	1243	1244	1245	1246
Length, feet	25	33	50	66	75	100
Weight each, ozs.	4	5	7	8	9	12
Price, each	\$4.20	\$4.60	\$5.15	\$6.50	\$6.85	\$8.75

Marked feet, 10ths and 100ths of feet, one side only

No.	1240D	1241D	1243D	1244D	1245D	1246D
Length, feet	25	33	50	66	75	100
Weight each, ozs.	4	5	7	8	9	12
Price, each	\$4.20	\$4.60	\$5.15	\$6.50	\$6.85	\$8.75

Marked metric only, one side only

(First decimetre in mm., balance of length in cm.)

No.	1240 ½ M	1241M	1243M	1244M	1245 ½ M	1246M
Length, metres	5	10	15	20	25	30
Weight each, ozs.	3	5	7	8	10	12
Price, each	\$4.00	\$4.60	\$5.15	\$6.50	\$7.60	\$8.75

Marked metric and English

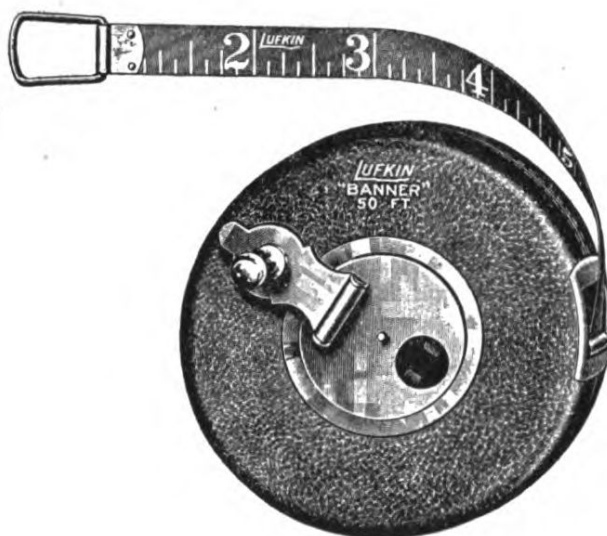
One side metric (first decimetre in mm., balance of length in cm.)

One side English (feet, inches and 16ths of inches)

No.	1240 ½ ME	1241ME	1243ME	1244ME	1245 ½ ME	1246ME		
No.	1240EM	1241EM	1243EM	1244EM	1245EM	1246EM		
Length, metres...	5	7 ½	10	15	20	22	25	30
Length, feet....	15	25	33	50	66	75	82	100
Weight each, ozs.	3	4	5	7	8	9	10	12
Price, each....	\$4.30	\$5.10	\$5.25	\$6.15	\$7.80	\$9.00	\$9.25	\$10.75

(ME tapes are assembled in case with metric on front, English on back)
(EM tapes are assembled in case with English on front, metric on back)

Packing: One in a box



"BANNER" STEEL TAPES

Instantaneous Readings.

"Nubian" Finish.

THE "BANNER" AFFORDS AT A MOST MODERATE PRICE THE ACCURACY OBTAINABLE ONLY IN A STEEL TAPE

This is by far the best of all popular priced steel tapes on the market. It is popularizing steel tapes with many who have previously used only woven lines. It meets a widespread demand.

Line of highest quality tape steel, distinctly marked. Case of mottled black imitation leather, a material of extraordinary durability and of good appearance. It is hand-stitched, has plated steel liner, and its trimmings are nickel plated. Folding flush handle is opened by pressing pin on opposite side. Measurements guaranteed accurate.

WITH THREE-EIGHTHS INCH TAPES

Marked feet, inches and 8ths of inches, one side only

No.	550	553	555	556
Length, feet	25	50	75	100
Weight each, ozs.	7	11	17	19
Price, each	\$4.20	\$5.25	\$6.85	\$8.75

Marked metric only, one side only
(First decimetre in mm., balance of length in cm.)

No.	550 1/2 M	551 M	553 M	554 M	555 1/2 M	556 M
Length, metres	5	10	15	20	25	30
Weight each, ozs.	6	8	11	14	18	19
Price, each	\$3.85	\$4.70	\$5.25	\$6.40	\$7.60	\$8.75

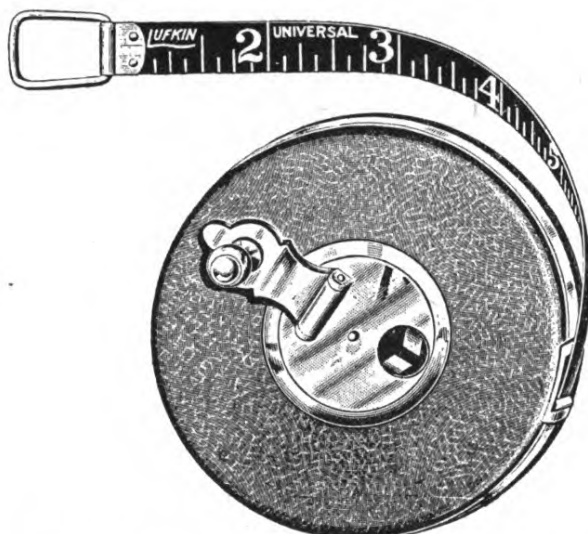
Marked metric and English
One side metric (first decimetre in mm., balance of length in cm.)
One side English (feet, inches and 8ths of inches)

No.	550 ½ ME	551 ME	553 ME	554 ME	555 ½ ME	556 ME		
No.	550 EM	551 EM	553 EM	554 EM	555 EM	556 EM		
Length, metres...	5	7 ½	10	15	20	25	30	
Length, feet....	15	25	33	50	66	75	82	100
Weight each, ozs.	6	7	8	11	14	17	18	19
Price, each....	\$4.15	\$4.70	\$5.40	\$6.25	\$7.70	\$8.35	\$9.25	\$10.75
	(ME tapes are assembled in case with metric on front, English on back)							
	(EM tapes are assembled in case with English on front, metric on back)							

(ME tapes are assembled in case with metric on front, English on back)
(EM tapes are assembled in case with English on front, metric on back)

Packing: One in a box

Note—"Banner" tapes are furnished marked feet, 10ths and 100ths of feet when so ordered.



IMPROVED "UNIVERSAL" STEEL TAPES

Instantaneous Readings

"Nubian" Finish

A Steel Tape so low in price that no carpenter or other mechanic can afford to be without it. The "Universal" gives the accuracy obtainable only in a steel tape, and sells at a popular price.

A $\frac{3}{8}$ inch wide, standard weight, steel tape, clearly marked. The metal-lined case is covered with mottled, black imitation leather, a good looking and extra durable material, and has a $\frac{3}{16}$ inch wide, flat flush, nickel plated edge band. Folding flush handle opened by pressing pin on opposite side. All trimmings are nickel plated.

WITH THREE-EIGHTHS INCH STEEL TAPES

Marked Feet, Inches, and 8ths of Inches, One Side Only

No.	540	543	545	546
Length, feet.....	25	50	75	100
Weight each, ozs.	6	10	15	17
Price, each	\$2.60	\$2.90	\$4.00	\$5.00

IMPROVED "UNIVERSAL" STEEL TAPES WITH HOOK-RING (End Fastener)



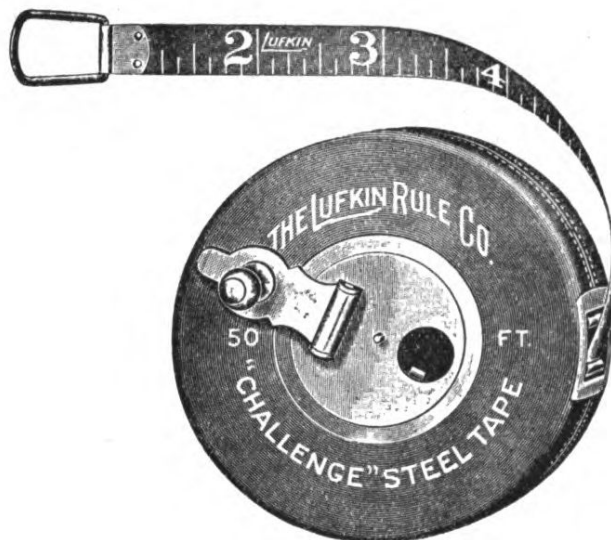
These are tapes with cases exactly same as above but with hook-ring at first end of line.

This first end holding device is a small, yet sturdy, two-pronged steel hook, permanently affixed to tape ring. It is illustrated above open for use. It enables one man, unassisted, to take measurements, as the hook will hold tape at the end of a board, the corner of a building, onto metal objects such as sheets, pipe, etc. Zero falls at inside of the open hook and both prongs of this hook have an anchor spur which grips when tape is given tension, preventing side sway and losing hold. Hook does not flop loosely, but holds itself in position both when open and closed. When closed it will not catch objects and does not obstruct the use of the tape.

WITH THREE-EIGHTHS INCH STEEL TAPES

Marked feet, inches and 8ths of inches, one side only.

Number	H-540	H-543	H-545	H-546
Length, feet	25	50	75	100
Weight each, ozs.,	6	10	15	17
Price, each	\$2.80	\$3.10	\$4.20	\$5.20



"CHALLENGE" STEEL TAPES WITH DIAMETER MEASUREMENT

Instantaneous Readings.

"Nubian" Finish.

CONVENIENT FOR DETERMINING THE DIAMETER OF PULLEYS,
SHAFTING, PIPING, COLUMNS, TANKS, ETC.

Standard pattern "Challenge" tapes but with diameter marking. Line marked one side feet, inches and 8ths of inches, other side diameter equivalents of circumferences in diameter feet and inches, with extra diameter inch first end subdivided to 64ths. With this tape one can read directly not only the circumference of any cylindrical body, but its diameter down to 64ths of an inch, by applying tape to circumference.

Highest grade tape steel, distinctly marked. Blank space first end. Case of selected genuine russet leather with plated steel liner. Nickel plated trimmings. Folding flush handle opened by pressing pin on opposite side. Measurements guaranteed accurate.

WITH THREE-EIGHTHS INCH TAPES

No. 261P	Length 33 feet.	Weight each, 9 ozs.	Each.	\$7.00
No. 263P	Length 50 feet.	Weight each, 11 ozs.	Each.	8.40

"CHALLENGE" STEEL TAPES IN CONSECUTIVE INCHES

"Nubian" Finish

FOR ANY WORK REQUIRING LONG MEASUREMENTS
EXPRESSED IN INCHES

Standard pattern "Challenge" tapes but with inches numbered consecutively, i. e., 25 foot tape has inches numbered 1 to 300, 50 foot tape 1 to 600.

High grade steel line, distinctly marked. Case of selected genuine russet leather with plated metal liner, and nickel plated trimmings. Folding flush handle opened by pressing pin on opposite side. Measurements guaranteed accurate.

WITH THREE-EIGHTHS INCH TAPES

Marked one side only, consecutive inches to eighths of inches

No. 260C	Length 300 inches (25 ft.)	Weight each, 8 ozs.	Each.	\$6.40
No. 263C	Length 600 inches (50 ft.)	Weight each, 11 ozs.	Each.	7.80

(Tapes can be furnished marked one side consecutive inches to 8ths, other side feet, inches and 8ths.)

Packing: All packed one in a box



"CHALLENGE" TREE TAPES

Instantaneous Readings.

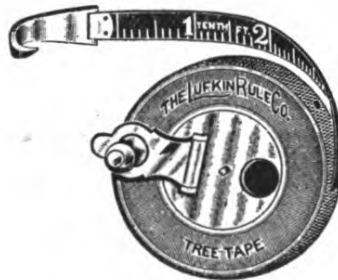
"Nubian" Finish.

GIVE AT A DIRECT READING THE DIAMETER AS WELL AS THE CIRCUMFERENCE OF THE TREE

This steel tape is used by the United States Forest Service, as well as by private foresters, and in ranger schools, etc. The line is marked one side regular feet, 10ths and 100ths of feet, other side diameter equivalents of circumferences in diameter feet, inches and 10ths of inches. Blank space first end. It is equipped for fastening to the tree with spike or peg, which folds down for convenience in carrying. Highest grade tape steel, distinctly marked. Case of selected genuine russet leather with plated steel liner. Folding flush handle opened by pressing pin on opposite side.

WITH THREE-EIGHTHS INCH TAPES

No. 261TP	Length, 33 feet.	Weight each, 10 ozs.	Each . \$ 9.00
No. 263TP	Length, 50 feet.	Weight each, 12 ozs.	Each 11.25



"ARTISAN" TREE TAPE

"Nubian" Finish

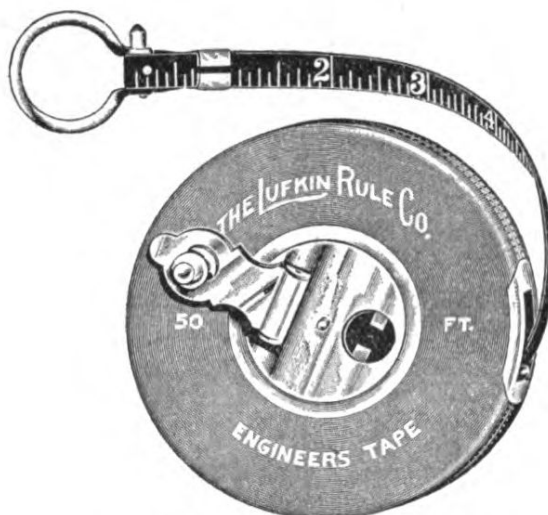
A FORESTER'S TAPE OF MEDIUM LENGTH IN METAL CASE

This item is also standard equipment of United States foresters. The steel line is marked on the front 20 feet in feet, 10ths and 100ths of feet, on the back in diameter equivalents of circumferences in consecutive diameter inches and 10ths of inches up to 76 inches. Blank space first end. Tape is fitted with a pointed metal hook for catching bark of trees. Put up in nickel plated steel case with knurled edge, affording a firm grip. Hole in edge of case into which point of hook fits for protection in carrying. Folding flush handle is opened by pressing pin on opposite side.

No. 120TP Length, 20 feet. Width, $\frac{3}{8}$ inch. Weight each, 6 ozs. Each \$4.50

Packing: All packed one in a box

NOTE—For Biltmore or Forest Cruiser Sticks, see Section Seven.



ENGINEERS PATTERN STEEL TAPES

Instantaneous Readings.

"Nubian" Finish.

**A STURDY TAPE AND CASE DESIGNED FOR ENGINEERING,
SURVEYING AND OTHER HEAVY WORK**

A quarter-inch tape, 50 per cent heavier than standard $\frac{3}{8}$ inch lines, and put up in steel lined leather case. It is the width and weight best for heavy work. For carrying, a case tape is by many preferred to a frame tape.

The line, of highest grade tape steel, is distinctly marked, with measurements beginning at end. It is readily removed from case and is supplied with a pair of detachable rings. The case is narrow, of selected genuine russet leather, hand-stitched, with substantial plated steel liner. Folding flush handle is opened by pressing pin on opposite side. Measurements guaranteed accurate.

WITH STANDARD WEIGHT, ONE-QUARTER INCH ENGINEERS TAPES

Marked feet, inches and 8ths of inches, one side only

No.	231	233	234	235	236
Length, feet	33	50	66	75	100
Weight each, ozs.	13	17	21	22	25
Price, each	\$7.50	\$8.75	\$11.30	\$12.50	\$15.60

Marked feet, 10ths and 100ths of feet, one side only

No.	231D	233D	234D	235D	236D
Length, feet	33	50	66	75	100
Weight each, ozs.	13	17	21	22	25
Price, each	\$7.50	\$8.75	\$11.30	\$12.50	\$15.60

Marked metric only, one side only
(First decimetre in mm., balance of length in cm.)

No.	231M	233M	234M	235½M	236M
Length, metres	10	15	20	25	30
Weight each, ozs.	13	17	21	23	25
Price, each	\$7.50	\$8.75	\$11.30	\$13.20	\$15.60

Marked metric and English

One side metric (first decimetre in mm., balance of length in cm.)
One side English (feet, inches and 8ths of inches)

No.	231ME	233ME	234ME	235½ME	236ME
No.	231EM	233EM	234EM	235EM	236EM
Length, metres	10	15	20	22	25
Length, feet	33	50	66	75	82
Weight each, ozs.	13	17	21	22	23
Price, each	\$8.20	\$9.75	\$12.60	\$14.00	\$14.85
					\$17.60

(ME tapes are assembled in case with metric on front, English on back)
(EM tapes are assembled in case with English on front, metric on back)

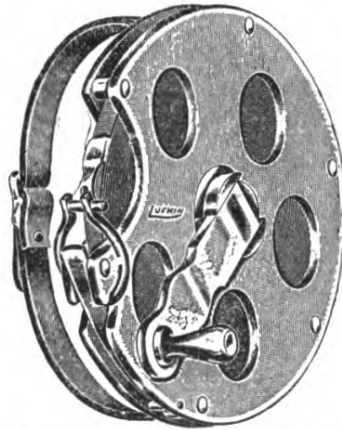
Packing: One in a box

NOTE—For Engineers Pattern Tapes in frames, see page 22.

**STAINLESS STEEL—At an extra price we can furnish the above
tapes in Stainless Steel.**

Original from

CORNELL UNIVERSITY



"WOLVERINE" STEEL TAPES

Instantaneous Readings "Nubian" Finish

**SUITABLE FOR ENGINEERING AND CONSTRUCTION WORK
COMBINING DURABILITY AND ACCURACY**

The REEL is of a light weight, rust-proof metal. Its perforated disc side aids in keeping the line clean and dry. The cut-away sides permit the ring being locked under a spring, preventing first end breakage. A long winding handle folds from center to edge of reel, locking line at any desired length.

The LINE is standard weight, Engineers Pattern, with two detachable rings and is readily removed from reel. Zero falls at end of line. Measurements guaranteed accurate.

**WITH STANDARD WEIGHT, ONE-QUARTER INCH
ENGINEERS TAPES**

Marked feet, inches and 8ths of inches, one side only

No.	1373	1374	1375	1376	1377
Length, feet	50	66	75	100	150
Weight each, oza.	18	23	25	30	47
Price, each	\$11.10	\$13.50	\$15.00	\$19.00	\$28.00

Marked feet, 10ths and 100ths of feet, one side only

No.	1373D	1374D	1375D	1376D	1377D
Length, feet	50	66	75	100	150
Weight each, oza.	18	23	25	30	47
Price, each	\$11.10	\$13.50	\$15.00	\$19.00	\$28.00

Marked metric only, one side only

(First decimetre in mm., balance of length in cm.)

No.	1373M	1374M	1375 1/2 M	1376M	1377M
Length, metres	15	20	25	30	50
Weight each, oza.	18	23	27	30	50
Price, each	\$11.10	\$13.50	\$15.75	\$19.00	\$30.00

Marked metric and English

One side metric (first decimetre in mm., balance of length in cm.)
One side English (feet, inches and 8ths of inches)

No.	1373ME	1374ME	1375 1/2 ME	1376ME	1377ME
No.	1373EM	1374EM	1375EM	1376EM	..
Length, metres	15	20	22	25	30
Length, feet	50	66	75	82	100
Weight each, oza.	18	23	25	27	30
Price, each	\$12.10	\$14.80	\$16.60	\$17.25	\$21.00
					\$33.00

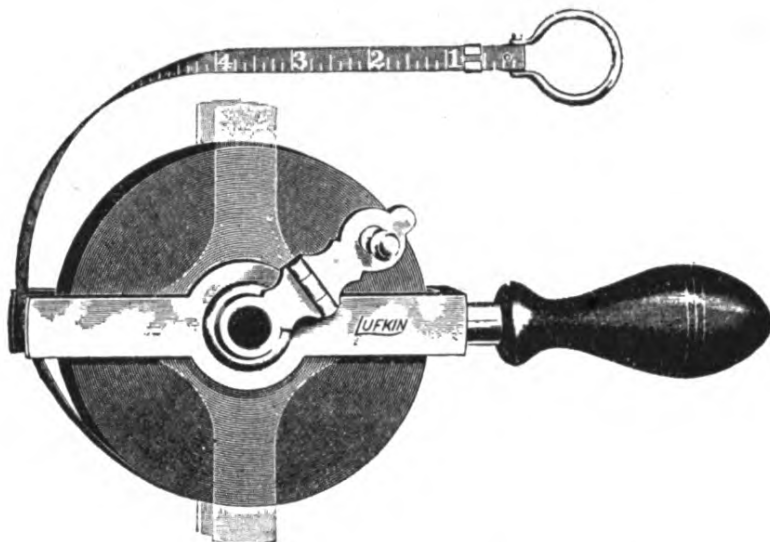
(ME tapes are assembled in reel with metric on front, English on back)
(EM tapes are assembled in reel with English on front, metric on back)

Packing: One in a box

STAINLESS STEEL—At an extra price, we can furnish standard weight tapes in Stainless Steel.

**WITH MEDIUM WEIGHT, ONE-QUARTER INCH
ENGINEERS TAPES**

Same as above except lines are 25% heavier, furnished at slightly higher prices when so ordered. Specify as: No. 1373D-X.



ENGINEERS PATTERN FRAME STEEL TAPES

With Folding Winding Handle

Instantaneous Readings. "Nubian" Finish.

AN ENGINEERS STRONG TAPE AND FRAME, SERVICEABLE EVEN
UNDER SEVERE CONDITIONS

Our Engineers Pattern heavy tape on open metal frame. Frames take care of dirt or other accumulation better than enclosed cases, they also give a firm hold and extra winding leverage.

Line of highest grade tape steel, distinctly marked. Readily removed from frame and supplied with a pair of detachable rings. Substantial metal frame, heavily nickel plated, with polished hardwood handle. Measurements guaranteed accurate.

WITH STANDARD WEIGHT, ONE-QUARTER INCH TAPES

Marked feet, inches and 8ths of inches, one side only							
No.	271	273	274	275	276	277	278
Length, feet	33	50	66	75	100	150	200
Weight each, ozs.	17	19	21	23	31	36	42
Price, each	\$6.70	\$8.35	\$9.85	\$11.90	\$14.20	\$21.50	\$27.80

Marked feet, 10ths and 100ths of feet, one side only							
No.	271D	273D	274D	275D	276D	277D	278D
Length, feet	33	50	66	75	100	150	200
Weight each, ozs.	17	19	21	23	31	36	42
Price, each	\$6.70	\$8.35	\$9.85	\$11.90	\$14.20	\$21.50	\$27.80

Marked metric only, one side only (First decimetre in mm., balance of length in cm.)							
No.	271M	273M	274M	275 1/2 M	276M	277M	278M
Length, metres	10	15	20	25	30	50	60
Weight each, ozs.	17	19	21	25	31	38	42
Price, each	\$6.70	\$8.35	\$9.85	\$12.60	\$14.20	\$23.50	

Marked metric and English One side metric (first decimetre in mm., balance of length in cm.) One side English (feet, inches and 8ths of inches)							
No.	271ME	273ME	274ME	275 1/2 ME	276ME	277ME	278ME
No.	271EM	273EM	274EM	275EM	276EM	277EM	278EM
Length, metres	10	15	20	22	25	30	50
Length, feet	33	50	66	75	82	100	164
Weight each, ozs.	17	19	21	23	25	31	38
Price, each	\$7.35	\$9.35	\$11.25	\$13.45	\$14.60	\$16.30	\$26.50

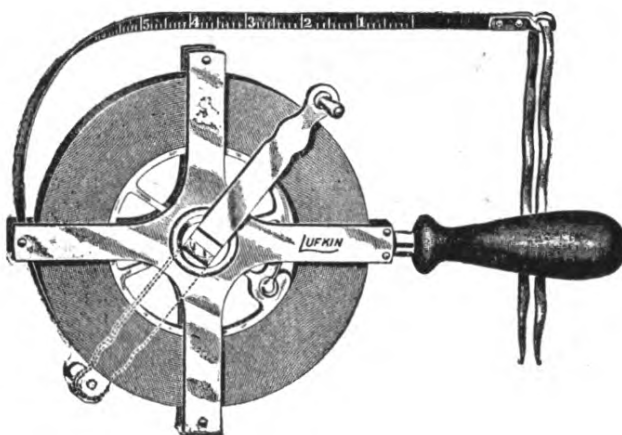
(ME tapes are assembled in frame with metric on front, English on back)
(EM tapes are assembled in frame with English on front, metric on back)

Packing: One in a box

NOTE—Above tapes 100 feet long and over are put up on four-arm frames, tapes under 100 feet on two-arm frames.

For above tapes on lock handle frames, see page 25
For above tapes in leather cases, see page 20.

STAINLESS STEEL—At an extra price we can furnish the above tapes in Stainless Steel.



"WESTERN" TAPE

Instantaneous Readings "Nubian" Finish

**AN EXTRA HEAVY ENGINEERING TAPE, GRADUATED
ENTIRE LENGTH TO 10THS AND 100THS OF FEET**

This is a heavy duty tape for engineering and construction work, where extra durability and accuracy are desired.

The LINE is 60% heavier than our standard weight Engineers Pattern Tapes; is graduated to feet, 10ths and 100ths of feet entire length and guaranteed accurate. Each end is fitted with heavy nickel plated brass clip (eye), and has blank space. Line is easily removed from frame. Pair of leather thongs furnished with each tape.

The FRAME is substantial, four-arm pattern, of metal, nickel plated and has polished hardwood handle. It has LOCK WINDING HANDLE, which, turned over, engages the frame and holds the tape at any desired point. The long winding handle and knob and 4-inch drum shell give good grip, leverage and speed in winding.

WITH HEAVY ONE-QUARTER INCH STEEL TAPE

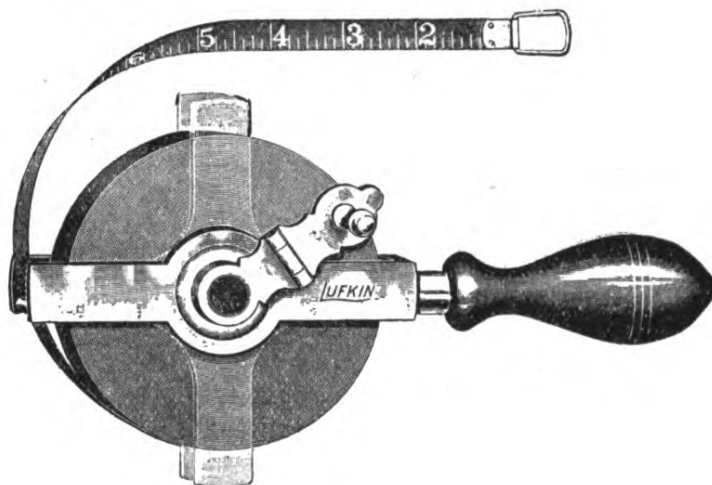
Marked Feet, 10ths, and 100ths of Feet, One Side Only

No. 1276D-XX. Tape complete. With Lock Handle Frame.
Length, 100 feet. Weight, each, $3\frac{1}{2}$ lbs. Each..\$20.00

No. 01276D-XX. Line only. Without Frame, with Thongs.
Length, 100 feet. Weight, each, $1\frac{1}{2}$ lbs. Each..\$13.60

Packing: One in a box.

Note—Above tapes can be furnished graduated feet, inches and 8ths, at same prices. Specify as "No. 1276-XX".



FRAME STEEL TAPES

With Folding Winding Handle

Instantaneous Readings.

"Nubian" Finish.

FOR GENERAL MEASURING.

FRAME TAPES ARE KEPT IN CONDITION WITH THE MINIMUM OF ATTENTION.

This is a standard width and weight steel tape, such as the "Challenge" $\frac{3}{8}$ inch, but on metal frame. It is a favorite in the oil fields and many places in general work. Frames take care of reasonable amount of dirt accumulation and afford the line a chance to dry. They also give extra winding leverage and a firm hold.

Line of highest grade tape steel, distinctly marked. Substantial metal frame heavily nickel plated and with polished hardwood handle. Measurements guaranteed accurate.

WITH THREE-EIGHTHS INCH TAPES

Marked feet, inches and 8ths of inches, one side only

No.	280	281	283	284	285	286	287	288
Length, feet	25	33	50	66	75	100	150	200
Weight each, ozs.	15	17	18	21	23	27	35	41
Price, each	\$4.75	\$5.60	\$7.15	\$8.20	\$9.85	\$12.25	\$20.00	\$25.00

Marked feet, 10ths and 100ths of feet, one side only

No.	280D	281D	283D	284D	285D	286D	287D	288D
Length, feet	25	33	50	66	75	100	150	200
Weight each, ozs.	15	17	18	21	23	27	35	41
Price, each	\$4.75	\$5.60	\$7.15	\$8.20	\$9.85	\$12.25	\$20.00	\$25.00

Marked metric only, one side only

(First decimetre in mm., balance of length in cm.)

No.	281M	283M	284M	285 $\frac{1}{2}$ M	286M	287M
Length, metres	10	15	20	25	30	50
Weight each, ozs.	17	18	21	24	27	38
Price, each	\$5.60	\$7.15	\$8.20	\$10.50	\$12.25	\$21.50

Marked metric and English

One side metric (first decimetre in mm., balance of length in cm.)

One side English (feet, inches and 8ths of inches)

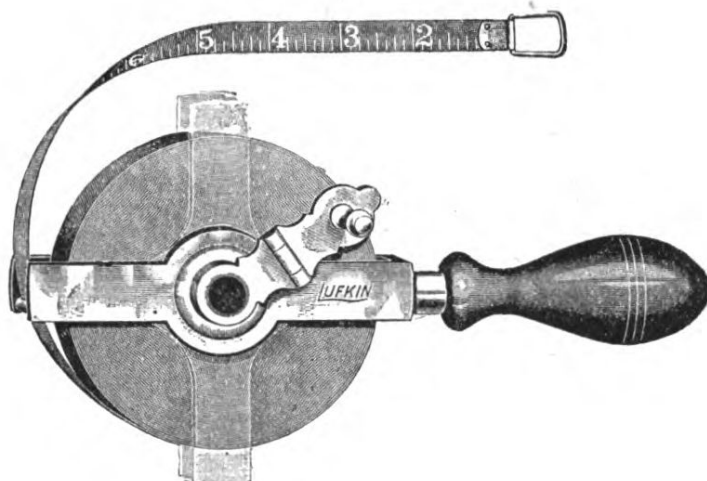
No.	281ME	283ME	284ME	285 $\frac{1}{2}$ ME	286ME	287ME	.....
No.	281EM	283EM	284EM	285EM	286EM	.....	288EM
Length, metres	10	15	20	22	25	30	50
Length, feet	33	50	66	75	82	100	164
Weight each, ozs.	17	18	21	23	24	27	38
Price, each	\$6.30	\$8.20	\$9.60	\$11.40	\$12.50	\$14.40	\$24.60
Price, each							\$29.00

(ME tapes are assembled in frame with metric on front, English on back)
(EM tapes are assembled in frame with English on front, metric on back)

Packing: One in a box

NOTE—Above tapes over 100 feet long are on four-arm frames, shorter lengths on two-arm frames.

For above tapes fitted with plumb bob for oil gauging, see page 27.
For above tapes on lock handle frames, see page 25.



FRAME STEEL TAPES (EXTRA WIDE)

With Folding Winding Handle

Instantaneous Readings.

"Nubian" Finish.

THE EXTRA WIDTH GIVES GREATER DURABILITY.

FRAME CONSTRUCTION WILL NOT READILY CLOG WITH DIRT.

A popular tape for heavy general measuring work. It affords good winding leverage and firm grip. Frame tapes not only take care of reasonable accumulation of dirt, etc., and give it a change to dry out, but can be reeled up and put directly into oil.

Line of highest grade tape steel, distinctly marked. The metal frame is substantial, heavily nickel plated, and fitted with polished hardwood handle. Measurements guaranteed accurate.

WITH ONE-HALF INCH TAPES

Marked feet, inches and 8ths of inches, one side only								
No.	290	291	293	294	295	296	297	298
Length, feet	25	33	50	66	75	100	150	200
Weight each, ozs.	17	19	22	25	27	31	42	51
Price, each	\$5.60	\$6.70	\$8.35	\$9.85	\$11.90	\$14.20	\$21.50	\$27.80

Marked feet, 10ths and 100ths of feet, one side only								
No.	290D	291D	293D	294D	295D	296D	297D	298D
Length, feet	25	33	50	66	75	100	150	200
Weight each, ozs.	17	19	22	25	27	31	42	51
Price, each	\$5.60	\$6.70	\$8.35	\$9.85	\$11.90	\$14.20	\$21.50	\$27.80

Marked metric only, one side only (First decimetre in mm., balance of length in cm.)						
No.	291M	293M	294M	295 1/2 M	296M	297M
Length, metres	10	15	20	25	30	50
Weight each, ozs.	19	22	25	29	31	45
Price, each	\$6.70	\$8.35	\$9.85	\$12.60	\$14.20	\$23.50

Marked metric and English One side metric (first decimetre in mm., balance of length in cm.) One side English (feet, inches and 8ths of inches)								
No.	291ME	293ME	294ME	295 1/2 ME	296ME	297ME	.....	.....
No.	291EM	293EM	294EM	295EM	296EM	.....	298EM	.....
Length, metres	10	15	20	22	25	30	50	60
Length, feet	33	50	66	75	82	100	164	200
Weight each, ozs.	19	22	25	27	29	31	45	51
Price, each	\$7.35	\$9.35	\$11.25	\$13.50	\$14.60	\$16.30	\$26.50	\$32.60

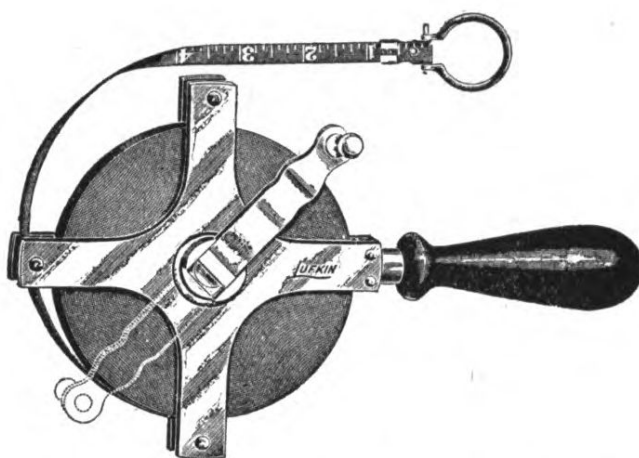
(ME tapes are assembled in frame with metric on front, English on back)
(EM tapes are assembled in frame with English on front, metric on back)

Packing: One in a box

NOTE—Above tapes over 100 feet long are on four-arm frames, shorter lengths on two-arm frames.

For above tapes fitted with plumb bob for oil gauging, see page 27.
For above tapes on lock handle frames, see page 25

STAINLESS STEEL—At an extra price we can furnish the above tapes in Stainless Steel.



LOCK HANDLE FRAME STEEL TAPES

Instantaneous Readings.

"Nubian" Finish.

THE ADVANTAGES OF A FRAME TAPE COMBINED WITH THAT OF THE LOCK HANDLE

These tapes and frames are, except in the winding apparatus, same as engineers and standard pattern frame tapes previously listed. The one-piece winding handle can be turned completely over, thus engaging the frame and holding or locking the tape at any desired point. This handle with its larger knob and greater length affords good grip and extra leverage.

Line of highest grade tape steel, distinctly marked. Substantial metal frame heavily nickel plated, and with polished hardwood handle. Measurements guaranteed accurate

WITH STANDARD, ONE-QUARTER INCH ENGINEERS PATTERN TAPES

(With Detachable Rings)
Marked one side only

Feet, inches and 8ths	No.	1271	1273	1274	1275	1276
Feet, 10ths and 100ths	No.	1271D	1273D	1274D	1275D	1276D
Length, feet	.....	33	50	66	75	100
Weight each, ozs.	.....	18	20	22	24	32
Price, each	.....	\$6.70	\$8.35	\$9.85	\$11.90	\$14.20

WITH THREE-EIGHTHS INCH TAPES

Marked one side only

Feet, inches and 8ths	No.	1281	1283	1284	1285	1286
Feet, 10ths and 100ths	No.	1281D	1283D	1284D	1285D	1286D
Length, feet	.....	33	50	66	75	100
Weight each, ozs.	.....	18	20	22	24	32
Price, each	.....	\$5.60	\$7.15	\$8.20	\$9.85	\$12.25

WITH ONE-HALF INCH TAPES

Marked one side only

Feet, inches and 8ths	No.	1291	1293	1294	1295	1296
Feet, 10ths and 100ths	No.	1291D	1293D	1294D	1295D	1296D
Length, feet	.....	33	50	66	75	100
Weight each, ozs.	.....	20	23	26	28	36
Price, each	.....	\$6.70	\$8.35	\$9.85	\$11.90	\$14.20

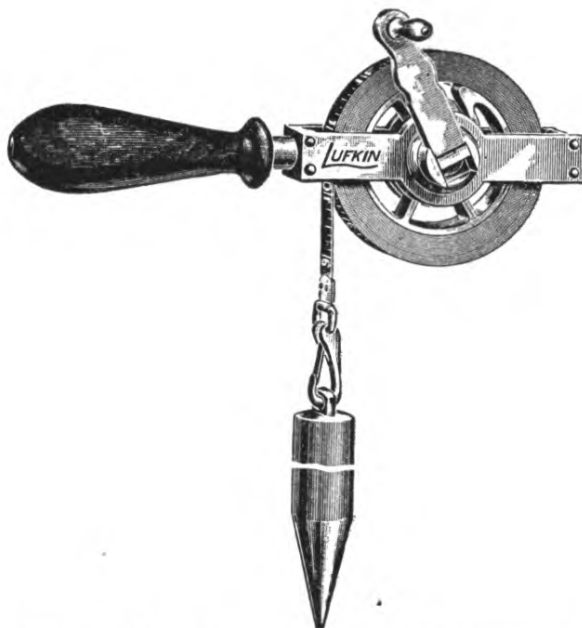
Packing: All packed one in a box

NOTE—All above tapes are furnished with two-arm frame, except Nos. 1276 and 1276D, which have four-arm frame.

Lock handle tapes marked metric and English take same price as 271ME series, page 22; 281ME series, page 23; and 291ME series, page 24, respectively; marked metric only, price same as marked feet and inches.

For lock handle tapes with plumb bob for oil gauging see page 28.

STAINLESS STEEL—At an extra price we can furnish the above tapes in Stainless Steel.



"ATLAS" OIL GAUGERS HEAVY STEEL TAPES

With Plumb Bob—With Lock Handle

Instantaneous Readings. "Nubian" Finish.

**EXTRA HEAVY LOCK HANDLE FRAME TAPE WITH No. 590,
20 OZ. PLUMB BOB**

DESIGNED EXCLUSIVELY FOR TANK GAUGING

This tape is well balanced, and the most practical and durable one made for tank gauging.

One-half inch wide steel line, 50 per cent heavier than standard $\frac{1}{2}$ inch measuring tapes, and distinctly marked. Measurements guaranteed accurate.

Sturdy metal case-hardened frame, built to withstand severe usage, with polished hardwood handle and with solid brass bob. It has lock handle, which, turned over, engages the frame and holds or locks the tape at any point. Long winding handle and knob, and extra size drum shell give good grip, leverage, and speed in winding.

The solid brass bob is round, with tapered point, is $6\frac{3}{4}$ inches long and 1 inch in diameter. Weighing 20 ozs., it will penetrate the heavier oils. It is included in measurement of tape and can be detached.

WITH HEAVY, ONE-HALF INCH TAPES

STANDARD PATTERN

Marked feet, inches and 8ths of inches, one side only

No. 1291S	With 590 Plumb Bob, Length 33 feet. Weight each, $2\frac{3}{4}$ lbs. Each.....	\$13.20
No. 1293S	With 590 Plumb Bob, Length 50 feet. Weight each, $3\frac{1}{4}$ lbs. Each.....	15.10

Marked metric and English

One side metric (first decimetre in mm., balance of length in cm.)
One side English (feet, inches and 8ths of inches)

No. 1291S-ME	With 590 Plumb Bob, Length 10 metres (33 ft.). Weight each, $2\frac{3}{4}$ lbs. Each.....	\$13.85
No. 1293S-ME	With 590 Plumb Bob, Length 15 metres (50 ft.). Weight each, $3\frac{1}{4}$ lbs. Each.....	16.10

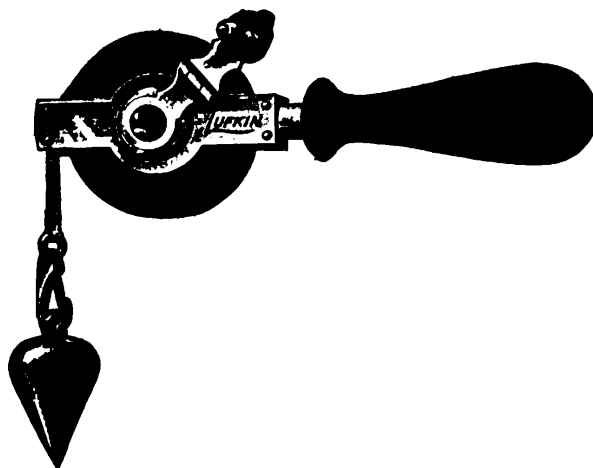
MEXICAN PATTERN

Same as above ME tapes, except metric side graduated down to millimetres entire length, and English side to feet, inches and 16ths. Not "Instantaneous" Readings.

No. 1291S-ME	MEXICAN PATTERN with 590 Plumb Bob, Length 10 metres (33 ft.). Weight each, $2\frac{3}{4}$ lbs. Each.....	\$14.70
No. 1293S-ME	MEXICAN PATTERN with 590 Plumb Bob, Length 15 metres (50 ft.). Weight each, $3\frac{1}{4}$ lbs. Each.....	17.50

Packing: All packed one in a box

NOTE—"Standard Pattern" is furnished unless "Mexican Pattern" is specified.
For gauging tapes with lighter weight bobs, see pages 27 and 28.
"Atlas" tapes marked metric only, price same as marked feet and inches.



OIL GAUGERS STEEL TAPES

With Plumb Bob—With Folding Handle

Instantaneous Readings. "Nubian" Finish.

POPULAR WITH GAUGERS OF THE LIGHTER CRUDE OILS,
GASOLINE, ETC.

These standard weight steel tapes on frames, with the light (6 oz.) bob, are also widely used throughout the oil industry.

Line of highest grade tape steel, distinctly marked. Measurements guaranteed accurate. Substantial metal frame heavily nickel plated, and with polished hardwood handle.

Tape fitted with No. 588, 6 oz. solid brass, cone-shaped bob, of $1\frac{1}{4}$ inch diameter. Length of bob, $2\frac{3}{8}$ inches, is included in measurement of tape, and bob is detachable..

ALWAYS SPECIFY "WITH 588 BOB"

IF WANTED WITHOUT BOB, SPECIFY "FOR 588"

WITH THREE-EIGHTHS INCH TAPES

Marked feet, inches and 8ths of inches, one side only

No. 280 With 588 Plumb Bob.	Length 25 ft.	Weight each, $1\frac{3}{8}$ lbs.	Each.....\$6.85
No. 281 With 588 Plumb Bob.	Length 33 ft.	Weight each, $1\frac{1}{2}$ lbs.	Each..... 7.70
No. 283 With 588 Plumb Bob.	Length 50 ft.	Weight each, $1\frac{3}{8}$ lbs.	Each..... 9.25

Marked metric and English

One side metric (first decimetre in mm., balance of length in cm.)

One side English (feet, inches and 8ths of inches)

No. 281ME With 588 Plumb Bob.	Length 10 metres (33 ft.).	Weight each, $1\frac{1}{2}$ lbs.	Each.....\$ 8.40
No. 283ME With 588 Plumb Bob.	Length 15 metres (50 ft.).	Weight each, $1\frac{3}{8}$ lbs.	Each..... 10.30

WITH ONE-HALF INCH TAPES

Marked feet, inches and 8ths of inches, one side only

No. 290 With 588 Plumb Bob.	Length 25 ft.	Weight each, $1\frac{1}{2}$ lbs.	Each.....\$ 7.70
No. 291 With 588 Plumb Bob.	Length 33 ft.	Weight each, $1\frac{3}{8}$ lbs.	Each..... 8.80
No. 293 With 588 Plumb Bob.	Length 50 ft.	Weight each, $1\frac{3}{8}$ lbs.	Each..... 10.45

Marked metric and English

One side metric (first decimetre in mm., balance of length in cm.)

One side English (feet, inches and 8ths of inches)

No. 291ME With 588 Plumb Bob.	Length 10 metres (33 ft.).	Weight each, $1\frac{3}{8}$ lbs.	Each. . . . \$ 9.45
No. 293ME With 588 Plumb Bob.	Length 15 metres (50 ft.).	Weight each, $1\frac{3}{8}$ lbs.	Each... .. 11.45

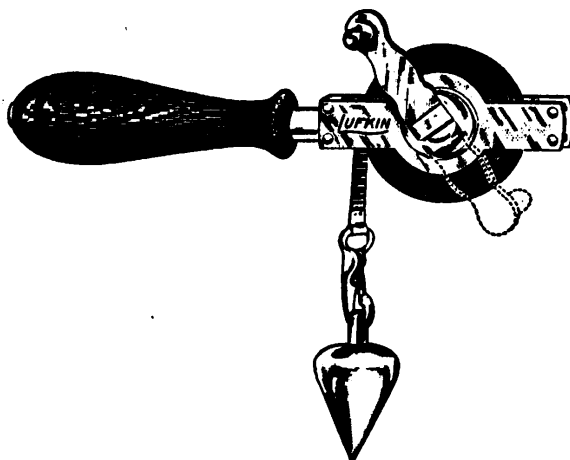
Packing: All packed one in a box

NOTE—For other bobs, see page 30. While above tapes can be furnished with the heavy, No. 590, bob, we recommend for that the heavier tape, the "Atlas", page 26.

Any above tapes can be furnished in "Mexican Pattern", i. e., marked mm throughout, and 16ths, for extra charge.

For above tapes on lock handle frames, see page 28.

For tapes marked metric only, price same as marked feet and inches.



OIL GAUGERS STEEL TAPES
With Plumb Bob—With Lock Handle
Instantaneous Readings. "Nubian" Finish.

**THE LOCK HANDLE IS CONVENIENT WHEN SOUNDING
 FOR THE BOTTOM OF THE TANK**

Standard weight steel tapes with No. 588 Plumb Bob and with lock handle frame. Many gaugers will use only the lock handle pattern.

Line of highest grade tape steel, distinctly marked. Measurements guaranteed accurate. Substantial nickel plated metal frame with polished hardwood handle. Lock handle holds the tape at any point and gives good grip and leverage.

Fitted with No. 588, 6 oz. solid brass plumb bob of $1\frac{1}{4}$ inch diameter, $2\frac{3}{8}$ inches long. Bob is included in measurement of tape and is detachable.

ALWAYS SPECIFY "WITH 588 BOB"

IF WANTED WITHOUT BOB, SPECIFY "FOR 588"

WITH THREE-EIGHTHS INCH TAPES

Marked feet, inches and 8ths of inches, one side only

No. 1280 With 588 Plumb Bob.	Length 25 ft.	Weight each, $1\frac{3}{8}$ lbs.	Each. . . \$6.85
No. 1281 With 588 Plumb Bob.	Length 33 ft.	Weight each, $1\frac{1}{2}$ lbs.	Each. . . 7.70
No. 1283 With 588 Plumb Bob.	Length 50 ft.	Weight each, $1\frac{5}{8}$ lbs.	Each. 9.25

Marked metric and English

One side metric (first decimetre in mm., balance of length in cm.)

One side English (feet, inches and 8ths of inches)

No. 1281ME With 588 Plumb Bob.	Length 10 metres (33 ft.).	Weight each, $1\frac{1}{2}$ lbs.	Each. . . . \$ 8.40
No. 1283ME With 588 Plumb Bob.	Length 15 metres (50 ft.).	Weight each, $1\frac{5}{8}$ lbs.	Each. 10.30

WITH ONE-HALF INCH TAPES

Marked feet, inches and 8ths of inches, one side only

No. 1290 With 588 Plumb Bob.	Length 25 ft.	Weight each, $1\frac{1}{2}$ lbs.	Each. . . \$ 7.70
No. 1291 With 588 Plumb Bob.	Length 33 ft.	Weight each, $1\frac{3}{8}$ lbs.	Each. . . . 8.80
No. 1293 With 588 Plumb Bob.	Length 50 ft.	Weight each, $1\frac{7}{8}$ lbs.	Each. . . 10.45

Marked metric and English

One side metric (first decimetre in mm., balance of length in cm.)

One side English (feet, inches and 8ths of inches)

No. 1291ME With 588 Plumb Bob.	Length 10 metres (33 ft.).	Weight each, $1\frac{3}{8}$ lbs.	Each. . . . \$ 9.45
No. 1293ME With 588 Plumb Bob.	Length 15 metres (50 ft.).	Weight each, $1\frac{7}{8}$ lbs.	Each. 11.45

Packing: All packed one in a box

NOTE—For other bobs, see page 30. While above tapes can be furnished with the heavy, No. 590, bob, we recommend for that the heavier tape, the "Atlas", page 26.

Any above tapes can be furnished in "Mexican Pattern", i. e., marked mm throughout, and 16ths, for extra charge.

For tapes marked metric only, price same as marked feet and inches



TEMPERATURE SCALE

For the most exact results the temperature in which a measuring tape is actually used must be taken into account.

Temperature scale on a steel tape is a series of graduations at the last end corresponding to the expansion and contraction of the tape over a range of temperatures which are indicated opposite the various lines. (Above illustration shows such scale (half size) on a 100 foot tape graduated to feet, 10ths and 100ths). This scale takes the place of the terminal mark, that point falling on the line in the scale representing the temperature prevailing.

We are prepared to put this scale on all steel tapes $\frac{1}{4}$ inch and over in width, on the basis of the Fahrenheit thermometer for tapes in English markings, and the centigrade thermometer for those in metric.

Extra for Temperature Scale.....\$1.30 per tape

PHOSPHOR BRONZE TAPES

Nickel Plated

These are rust proof. They are particularly adapted for use around salt water, acids and gases, and where a tape is continuously exposed. While of hard bronze, they are not spring tempered as are steel tapes.

We can supply Phosphor Bronze Tapes in $\frac{3}{8}$ inch and $\frac{1}{2}$ inch widths put up in any of our standard leather cases or metal frames. Prices quoted on application.

STEEL TAPE LINES WITHOUT CASES OR FRAMES

With Regular Graduations

Specify as "Tapes only" and by prefixing zero to stock number of complete tape, as "No. 0263 Challenge tape only".

Three-Eighths Inch Wide

For No. 200 Series "Reliable", No. 260 Series "Challenge", "Rival", and No. 280 and No. 1281 Series Frame Tapes.

Length, feet	25	33	50	66	75	...	100	150	...	200
Length, metres	5	10	15	20	...	25	30	...	50	60
Marked one side, each.....	\$3.00	3.60	3.90	4.50	5.65	6.00	6.60	7.80	13.50	15.00 18.00
Marked both sides, each	\$3.60	4.40	4.80	6.00	7.60	8.30	9.00	10.80	18.00	20.00 24.00

One-Half Inch Wide

For No. 300 Series "Reliable", No. 360 Series "Challenge", and No. 290 and No. 1291 Series Frame Tapes.

Length, feet	25	33	50	66	75	...	100	150	...	200
Length, metres	5	10	15	20	...	25	30	...	50	60
Marked one side, each.....	\$3.90	4.50	4.80	5.65	7.15	8.30	9.00	10.50	16.50	18.00 22.00
Marked both sides, each	4.50	5.30	5.90	7.20	9.00	10.50	11.40	13.50	21.00	23.10 28.00

Light Weight, One-Quarter Inch Wide

For "Reliable Jr.", "Challenge Jr.", and "Rival Jr." Tapes.

Length, feet	25	33	50	66	75	...	100
Length, metres	5	10	15	20	...	25	30
Marked one side, each.....	\$2.85	\$3.40	\$3.70	\$4.30	\$5.40	\$5.70	\$6.30 \$ 7.40
Marked both sides, each.....	3.40	4.20	4.60	5.70	7.20	7.90	8.55 10.25

Heavy, One-Quarter Inch Wide (with Detachable Rings)

For "Wolverine", and Nos. 231, 271, and 1271 Series Engineers Pattern Tapes.

Length, feet	33	50	66	75	...	100	150	...	200
Length, metres	10	15	20	...	25	30	...	50	60
Marked one side, each.....	\$5.40	6.80	8.40	10.20	11.00	12.70	18.60	20.30	24.50
Marked both sides, each.....	6.60	8.40	10.70	12.70	13.80	16.10	23.70	26.00	31.50

NOTE—Plumb Bob Tapes only, i. e., tapes cut for bob and fitted with snap, take above prices plus 10c each (except the "Atlas").

"Atlas" One-Half Inch Wide

Standard Pattern with Snap

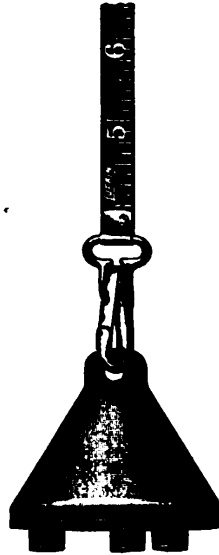
Length, feet	33	50
Length, metres.....	10	15
Marked one side, each	\$5.60	\$6.50
Marked both sides, each	6.70	8.00

NOTE—For Chain Tapes only, see Chain Tape pages.

TAPE ACCESSORIES



No. 588



No. 589



No. 590

PLUMB BOBS FOR STEEL TAPES

(FOR TAPES COMPLETE WITH PLUMB BOBS, SEE PAGES 26, 27 AND 28)

These plumb bobs attached to steel tapes are used in tank gauging throughout the oil industry. No. 588 is of weight suitable for gauging the lighter crude oils, gasoline, etc. No. 590 will penetrate the heavier oils. These two bobs are of solid brass. No. 589 is enameled, and being same length as No. 588, is interchangeable with it.

No. 588 Wt. each, 6 ozs. Lgth, 2 $\frac{3}{4}$ in. Diam. 1 $\frac{1}{4}$ in. Each \$2.10

No. 589 Wt. each, 14 ozs. Lgth, 2 $\frac{3}{4}$ in. Diam. 2 $\frac{3}{8}$ in. Each 2.90

No. 590 Wt. each, 20 ozs. Lgth, 6 $\frac{3}{4}$ in. Diam. 1 in. Each 2.65

Packing: One in a box.

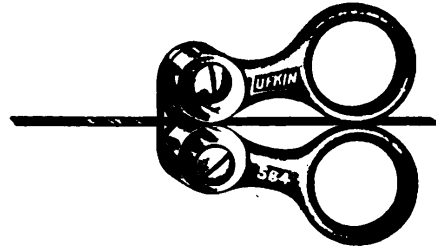


TAPE HOOKS

In many places enable one man to take long or short measurements unassisted. Easily slipped on our steel tapes with standard end ring. When attached to such tapes measuring from end of ring zero falls at inside of hook.

No.	For	Wt. Per Doz.	Price, Each
551	$\frac{1}{4}$ in. tapes	8 ozs.	\$0.60
552	$\frac{3}{8}$ in. tapes	11 ozs.	.60
552 $\frac{1}{2}$	$\frac{1}{2}$ in. tapes	22 ozs.	.75

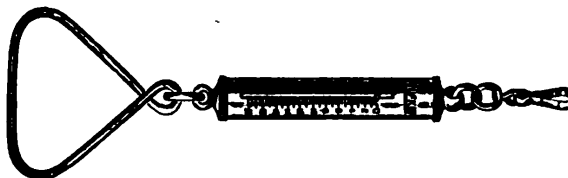
Packing: One dozen in a box



CLAMP HANDLE

For gripping a steel tape at any point along its length so tension can readily be applied and held. Made of brass, nickel plated. Applied and removed by simply operating the handle. Properly used, will not damage a tape in any way.

No. 584 Wt. each, 4 ozs. Each. \$2.65



TENSION HANDLE

For applying and determining the exact tension applied to any tape. Used on steel tapes in precise work to insure uniformity of results. Made of brass, nickel plated. Capacity 30 lbs., indicated by half pounds.

No. 586 Weight each, 4 ozs. Each.....\$5.25

NOTE—For Surveyor's Arrows, see page 31.



No. 591



Nos. 592-595

SPRING STEEL ARROWS

THESE SURVEYOR'S ARROWS ARE OF OIL TEMPERED STEEL

No. 591 3/16 inch, square; 14 inches long. Nickel plated. With red flag. This arrow, being square, measurements to or from it can be most accurately taken. Its size and shape are such that with it a hole can be reamed in hard soil or ice and an especially firm setting secured. The red linen flag is securely sewed to the ring.

Weight per set, 2 lbs. Price, per set of 11.....\$5.25

No. 592 3/16 inch, round; 10 inches long. Nickel plated. With ring enameled bright vermilion.

Weight per set, 1 1/4 lbs. Price, per set of 11.....\$2.25

No. 593 3/16 inch, round; 14 inches long. Nickel plated. With ring enameled bright vermilion.

Weight per set, 1 3/4 lbs. Price, per set of 11.....\$2.60

No. 594 9/64 inch, round; 10 inches long. Plain. With ring enameled bright vermilion.

Weight per set, 3/4 lbs. Price, per set of 11.....\$1.40

No. 595 9/64 inch, round; 14 inches long. Plain. With ring enameled bright vermilion.

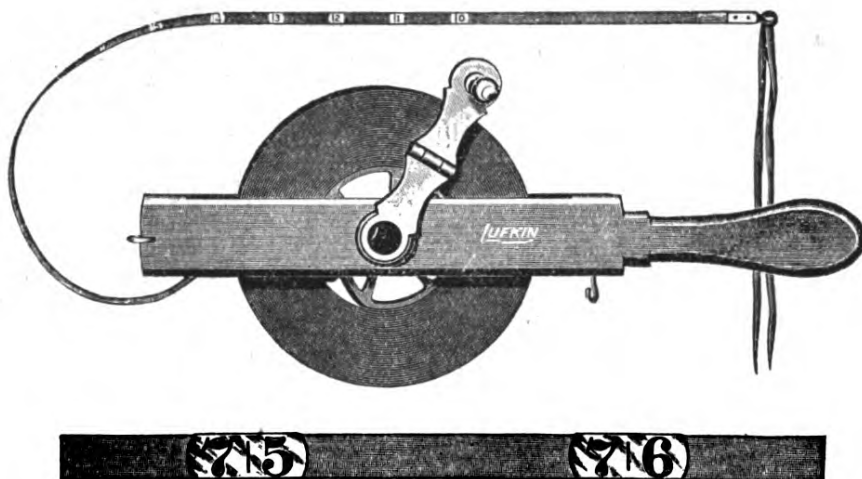
Weight, per set, 1 lb. Price, per set of 11.....\$1.50

Packing: One set of 11 Arrows in a box

For carrying Arrows we can furnish the following:

No. 596 Steel Carrying Ring. Price, each.....\$0.35

No. 597 Leather Quiver with belt loop for carrying 11 arrows. Price, each....\$4.20



SURVEYORS CHAIN TAPES

Etched Graduations.

"Nubian" Finish.

**A CHAIN TAPE FOR HEAVY SURVEY WORK, YET ONE THAT AFFORDS
ALSO THE CLOSEST DEGREE OF ACCURACY**

A quarter-inch extra heavy steel tape, marked one side only. Markings are etched into raised bright portions of the tape, therefore are most legible and permanent. A pair of rawhide thongs is furnished with each tape (detachable rings instead if specified). Put up on well finished hardwood reel, with long folding winding handle and large drum. Trimmings nickel plated. Line detachable from reel. Measurements guaranteed accurate.

Regular Markings

Tapes in feet—marked feet only every foot, with end feet in 100ths.

Tapes in links—marked links and poles, with end links in 10ths.

Tapes in metres—marked first and last decimetre in mm., balance of first and last metre in cm., balance of length in decimetres.

WITH EXTRA HEAVY, ONE-QUARTER INCH TAPES

Tapes Complete, With Reel and Thongs

Tapes Without Reel. With Thongs

No.	Length	Wt. Each	Each	No.	Length	Wt. Each	Each
5100	100 ft.	2 ¼ lbs.	\$ 9.00	05100	100 ft.	1 ½ lbs.	\$ 6.00
5150	150 ft.	3 ½ lbs.	12.00	05150	150 ft.	2 ½ lbs.	8.40
5200	200 ft.	4 lbs.	14.10	05200	200 ft.	3 lbs.	10.50
5300	300 ft.	5 ½ lbs.	21.40	05300	300 ft.	4 ¼ lbs.	16.00
5066	100 link	2 lbs.	7.80	05066	100 link	1 ¼ lbs.	4.80
5132	200 link	3 lbs.	12.00	05132	200 link	2 lbs.	8.40
5082M	25 metre	2 ¼ lbs.	8.70	05082M	25 metre	1 ½ lbs.	5.70
5100M	30 metre	2 ½ lbs.	10.00	05100M	30 metre	1 ¾ lbs.	7.00
5164M	50 metre	3 ½ lbs.	15.00	05164M	50 metre	2 ¾ lbs.	11.50
5328M	100 metre	5 ¾ lbs.	27.00	05328M	100 metre	4 ¾ lbs.	21.00

Reels Only

For 100 ft., 100 link, 25 and 30 metre tapes, each.....\$3.50

For 150 and 200 ft., 200 link, and 50 metre tapes, each..... 4.20

For 300 ft., and 100 metre tapes, each..... 6.30

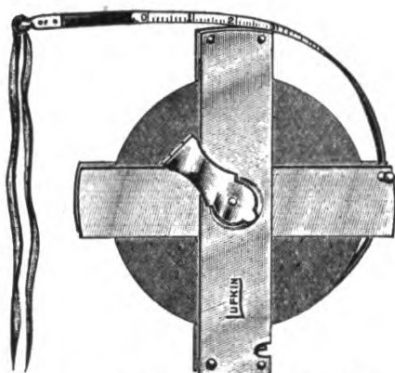
Packing: One in a box

NOTE—Half gage mark put on any above tapes when specified. No extra charge. This is a mark 2' 4 ¼" from zero, representing one-half standard gage of railroad track.

Tapes with end feet marked inches and 8ths, no extra charge.

Tapes with extra foot first end to 100ths numbered from right to left, no extra charge.

— NEW PRICES —



Tape Complete, with Reel



Reel Only, when Folded



SURVEYORS CHAIN TAPES

Etched Graduations.

"Nubian" Finish.

AN ACCURATE, DURABLE CHAIN TAPE
WITH FOLDING CROSS-ARM ALL-METAL REEL

Steel line same as No. 5100 series, page 32, i. e., $\frac{1}{4}$ inch extra heavy, with markings etched into raised bright portions, making them most legible and permanent. Tape marked one side only. A pair of rawhide thongs is furnished with each tape (detachable rings instead if specified). Put up on substantial cross-arm all-metal reel in dull nickel plated finish. Reel has leather strap handle, long folding winding handle and large drum. Cross arms fold together as illustrated above. This type of reel is especially desirable for the longer tapes. Trimmings nickel plated. Line detachable from reel. Measurements guaranteed accurate.

Regular Markings

Tapes in feet—marked feet only every foot, with end feet in 100ths.

Tapes in links—marked links and poles, with end links in 10ths.

Tapes in metres—marked first and last decimetre in mm., balance of first and last metre in cm., balance of length in decimetres.

WITH EXTRA HEAVY, ONE-QUARTER INCH TAPES

Tapes Complete, With Reel and Thongs

No.	Length	Wt.	Each	Each
6100	100 ft.	2 $\frac{3}{4}$ lbs.	\$12.00	
6150	150 ft.	3 $\frac{1}{2}$ lbs.	14.40	
6200	200 ft.	4 $\frac{1}{4}$ lbs.	17.50	
6300	300 ft.	5 $\frac{3}{4}$ lbs.	24.00	
6500	500 ft.	8 $\frac{1}{2}$ lbs.	36.00	
6066	100 link	2 $\frac{1}{2}$ lbs.	10.80	
6132	200 link	3 $\frac{1}{4}$ lbs.	14.40	
6082M	25 metre	2 $\frac{3}{4}$ lbs.	11.70	
6100M	30 metre	2 $\frac{3}{4}$ lbs.	12.90	
6164M	50 metre	4 lbs.	18.25	
6328M	100 metre	6 lbs.	28.50	

Tapes Without Reel, With Thongs

No.	Length	Wt.	Each	Each
06100	100 ft.	1 $\frac{1}{2}$ lbs.	\$ 6.00	
06150	150 ft.	2 $\frac{1}{2}$ lbs.	8.40	
06200	200 ft.	3 lbs.	10.50	
06300	300 ft.	4 $\frac{1}{4}$ lbs.	16.00	
06500	500 ft.	7 lbs.	27.00	
06066	100 link	1 $\frac{1}{4}$ lbs.	4.80	
06132	200 link	2 lbs.	8.40	
06082M	25 metre	1 $\frac{1}{2}$ lbs.	5.70	
06100M	30 metre	1 $\frac{3}{4}$ lbs.	7.00	
06164M	50 metre	2 $\frac{3}{4}$ lbs.	11.50	
06328M	100 metre	4 $\frac{3}{4}$ lbs.	21.00	

Reels Only

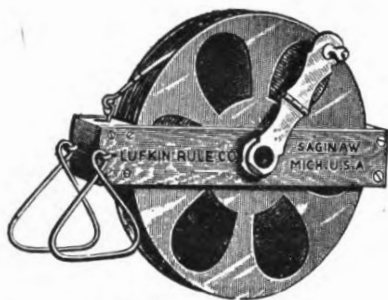
For 100 ft., 100 link, 25 and 30 metre tapes, each... \$ 7.00
For 150 and 200 ft., 200 link, and 50 metre tapes, each 8.00
For 300 ft. and 100 metre tapes, each..... 9.00
For 500 ft. tapes, each 12.00

Packing: One in a box

NOTE—Half gage mark put on any above tapes when specified. No extra charge. This is a mark 2' 4 $\frac{1}{4}$ " from zero, representing one-half standard gage of railroad track.

Tapes with end feet marked inches and 8ths, no extra charge.

Tapes with extra foot first end to 100ths numbered from right to left, no extra charge.



SURVEYORS CHAIN TAPES (EXTRA NARROW)

Etched Graduations.

"Nubian" Finish.

**THIS EXTRA NARROW HEAVY TAPE HANDLES WELL AMONG
OBSTRUCTIONS AND ON ROUGH GROUND**

One-eighth inch wide, extra heavy steel tape marked one side only. Markings are etched into raised bright portions of the tape, therefore are extra legible and permanent. Pair of rawhide thongs is furnished with each tape (detachable rings instead if specified). Durable sheet steel open reel in dull nickel plated finish, and mounted in hardwood frame, with strap handle. Long folding winding handle. Line detachable from reel. Measurements guaranteed accurate.

Regular Markings

Tapes in feet—marked feet only every foot, with end feet in 100ths.

Tapes in links—marked links and poles, with end links in 10ths.

Tapes in metres—marked first and last decimetre in mm., balance of first and last metre in cm., balance of length in decimetres.

WITH EXTRA HEAVY, ONE-EIGHTH INCH TAPES

Tapes Complete, With Reel and Thongs

Tapes Without Reel, With Thongs

No.	Length	Wt. Each	Each	No.	Length	Wt. Each	Each
4100	100 ft.	3 1/4 lbs.	\$15.00	04100	100 ft.	1 1/2 lbs.	\$ 6.00
4150	150 ft.	3 1/2 lbs.	17.40	04150	150 ft.	1 3/4 lbs.	8.40
4200	200 ft.	4 lbs.	19.50	04200	200 ft.	2 1/4 lbs.	10.50
4300	300 ft.	5 1/4 lbs.	26.50	04300	300 ft.	3 lbs.	16.00
4500	500 ft.	6 3/4 lbs.	37.50	04500	500 ft.	4 1/4 lbs.	27.00
4066	100 link	3 lbs.	13.80	04066	100 link	1 1/4 lbs.	4.80
4132	200 link	3 1/2 lbs.	17.40	04132	200 link	1 3/4 lbs.	8.40
4082M	25 metre	3 lbs.	14.70	04082M	25 metre	1 1/4 lbs.	5.70
4100M	30 metre	3 lbs.	16.00	04100M	30 metre	1 1/2 lbs.	7.00
4164M	50 metre	3 3/4 lbs.	20.40	04164M	50 metre	2 lbs.	11.50
4328M	100 metre	5 1/2 lbs.	31.50	04328M	100 metre	3 1/4 lbs.	21.00

Back Order

Special 5-Chain Tape Marked in Links.

Same description as Tapes listed above but 5 chains, i. e. 500 links long, and subdivided as follows:

First 10 links to 10ths of links.

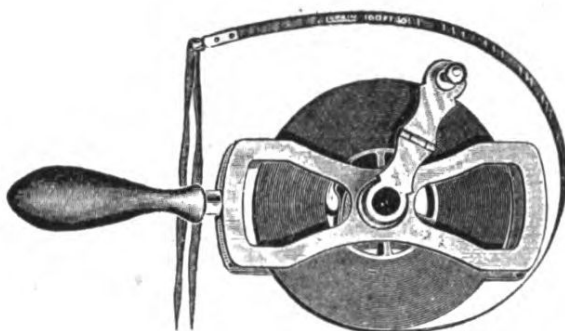
Balance of first 100 links to links.

Balance of Tape every 10 links only.

No. 04330GL Chain Tape. Without Reel. With Thongs.

Length: 5-Chains Each \$21.40

(Similar Tape also supplied 8-chains long.)



"MICHIGAN" SURVEYORS CHAIN TAPES

Graduated on Babbitt Metal

A CHAIN TAPE THAT WILL STAND UP TO RAILROAD AND OTHER ROUGH WORK

This line is of heavy and extra tough steel, coated with white metal to resist rust. It is practically indestructible. Graduations are stamped into babbitt metal. The line is marked one side only and a pair of rawhide thongs is furnished with each tape (detachable rings instead if specified).

Has sturdy metal reel of improved pattern, heavily nickel plated, with polished hardwood handle and long folding winding handle. Line is detachable from reel.

Regular Markings

Tapes in feet—marked feet only every foot, end feet in 10ths.

Tapes in links—marked links and poles, with end links in 10ths.

Tapes in metres—marked first and last metre in decimetres, balance of length in metres.

Tapes Complete, With Reel and Thongs

Tapes Without Reel, With Thongs

Widths					Widths				
⁵ / ₁₆ Inch No.	³ / ₁₆ Inch No.	Lgth.	Wt. Ea. Lbs. Approx.	Each	⁵ / ₁₆ Inch No.	³ / ₁₆ Inch No.	Lgth.	Wt. Ea. Lbs. Approx.	Each
3100	& 2100	100 ft.	3 ¼	\$ 9.00	03100	& 02100	100 ft.	2	\$ 6.00
3150	& 2150	150 ft.	5	12.00	03150	& 02150	150 ft.	3 ¼	8.40
3200	& 2200	200 ft.	6	14.10	03200	& 02200	200 ft.	4 ¼	10.50
3300	& 2300	300 ft.	8	21.40	03300	& 02300	300 ft.	5 ¾	16.00
3500	& 2500	500 ft.	11 ½	33.00	03500	& 02500	500 ft.	10 ¼	27.00
3066	& 2066	100 link	2 ¾	7.80	03066	& 02066	100 link	1 ¾	4.80
3132	& 2132	200 link	4 ½	12.00	03132	& 02132	200 link	3 ¼	8.40
3082M	& 2082M	25 metre	2 ¾	8.70	03082M	& 02082M	25 metre	1 ¾	5.70
3100M	& 2100M	30 metre	3	10.00	03100M	& 02100M	30 metre	2	7.00
3164M	& 2164M	50 metre	5	15.00	03164M	& 02164M	50 metre	3	11.50
3328M	& 2328M	100 metre	8 ½	27.00	03328M	& 02328M	100 metre	6 ¼	21.00

Reels Only

For 100 ft., 100 link, 25 and 30 metre tapes, each...\$3.50

For 150 and 200 ft., 200 link and 50 metre tapes, each 5.25

For 300 ft. and 100 metre tapes, each 7.00

For 500 ft. tapes, each 8.50

Packing: One in a box

NOTE—Reels for above tapes over 100 feet long are four-arm pattern.

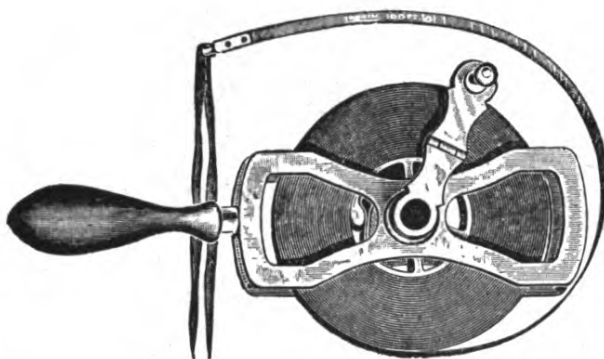
Half gage mark put on any above tapes when specified. No extra charge.

This is a mark 2' 4 1/4" from zero, representing one-half standard gage of railroad track.

Tapes with extra foot first end to 10ths, numbered from right to left, no extra charge.

Tapes with measurements beginning at end (outer end of clip), no extra.

Babbitt Metal Chain Tapes can be supplied in 50 foot length.



(Actual size)

HI-WAY DRAG TAPES

Extra Sturdy and Designed Especially for Highway and Railroad Work — 5/16 Inch Wide — Etched Graduations

A Chain Tape made of special tough steel of extra width and weight, practically unbreakable. Has "Nubian" Finish and prominent black lines and figures deeply cut into bright high portions of the line itself, therefore most prominent, easy to read, and easy to locate even by touch. This is a line that will outwear all others, the markings remaining clear even after much dragging of the tape.

Regularly marked one side only to feet only every foot with end feet in 100ths, and having $\frac{1}{2}$ railroad gage, i. e., mark at $2'4\frac{1}{4}"$ from zero. Heavy brass end clips. Pair of rawhide thongs with each tape. Line readily detached from reel.

Sturdy metal reel in dull nickel plated finish, with polished hardwood handle and long folding winding handle. Tapes over 100 feet long have 4-arm reel, with "D" handle and spike end.

HI-WAY TAPES COMPLETE WITH REEL

Blank Space Each End*	Measuring From Outer End of Clips	Extra Ft. before Zero in 100ths, Numbered Right to Left	Length	Weight Each	Each
No. 9050	No. 9050-A	No. 9050-B	50 ft.	2 $\frac{1}{4}$ lbs.	\$ 8.65
No. 9100	No. 9100-A	No. 9100-B	100 ft.	3 $\frac{1}{4}$ lbs.	10.50
No. 9150	No. 9150-A	No. 9150-B	150 ft.	5 lbs.	15.00
No. 9200	No. 9200-A	No. 9200-B	200 ft.	6 $\frac{3}{4}$ lbs.	19.25
No. 9300	No. 9300-A	No. 9300-B	300 ft.	8 $\frac{3}{4}$ lbs.	27.50

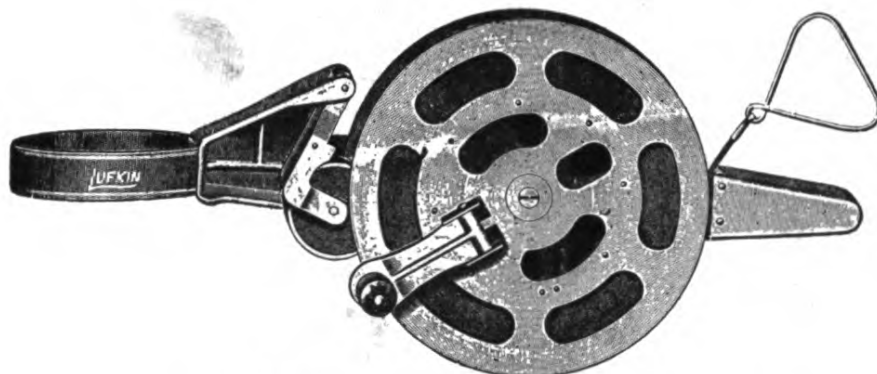
TAPE LINES ONLY, WITHOUT REEL, WITH THONGS

Blank Space Each End*	Measuring From Outer End of Clips	Extra Ft. before Zero in 100ths, Numbered Right to Left	Length	Weight Each	Each
No. 09050	No. 09050-A	No. 09050-B	50 ft.	1 lb.	\$ 5.65
No. 09100	No. 09100-A	No. 09100-B	100 ft.	2 lbs.	7.50
No. 09150	No. 09150-A	No. 09150-B	150 ft.	3 lbs.	10.50
No. 09200	No. 09200-A	No. 09200-B	200 ft.	4 lbs.	13.25
No. 09300	No. 09300-A	No. 09300-B	300 ft.	6 lbs.	20.00

REELS ONLY

For 50 and 100 ft. Tapes	Each \$3.00	For 200 ft. Tape	Each \$6.00
For 150 ft. Tape	4.50	For 300 ft. Tape	7.50

*Tapes with blank space at each end are furnished unless otherwise specified.



**THE "CRIPPLE CREEK" REEL
REEL AND FITTINGS ESPECIALLY DESIGNED FOR HANDLING
THE LONGER CHAIN TAPES**

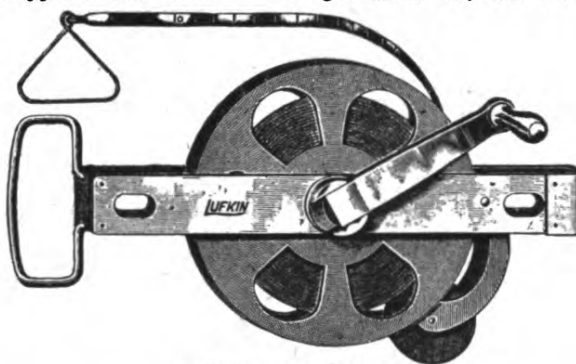
This is an open disk reel, 8 inches in diameter, of steel, nickel plated. It is mounted on an aluminum frame 15 inches long.

The winding handle gives over 4 inches leverage and has extra large extension hand grip. The construction makes reeling up easy and rapid. A spring tension roller of hardwood rides on the tape, causing it to wind evenly and tightly. Frame has leather loop for carrying reel suspended. While durable and designed for heavy tapes, the "Cripple Creek" is of medium weight.

Made in one size only. It will accommodate $\frac{1}{8}$ inch wide etched Chain Tapes up to 1,000 feet long, $\frac{1}{4}$ inch up to 500, and babbitt metal tapes up to 300 feet.

For the "Cripple Creek" reel we can supply a staff. This is of hardwood, 40 inches long, having at one end aluminum socket head and set screw for mounting the reel, at the other a steel point for firmly setting in the ground.

"Cripple Creek" Reel only, complete. Weight each, $4\frac{1}{2}$ lbs. Each.....\$42.00
Staff only for "Cripple Creek" Reel. Weight each, $2\frac{1}{4}$ lbs. Each..... 8.00



REEL No. 1914

AN ALL-STEEL LOCK HANDLE REEL FOR CHAIN TAPES

The winding reel is of 7 inch diameter and frame in which it is mounted is 14 inches long overall. The winding handle gives 5 inches leverage, and locks into either end of the frame, thus holding the tape at any point. Hardwood spring tension roller engages the tape, causing it to wind evenly and tightly. This reel is in dull nickel plated finish. It is of medium weight and will withstand severe use.

No. 1914 reel can be used with any of our chains, pages 32, 33, 34 and 35, and is especially recommended for the longer lengths and the babbitt tapes. Made in three capacities, varying only in width.

In Ordering Always State Length, Width and Style of the Tape to be Used

No. 1914	Reel, for 100 foot tapes.	Weight each, $3\frac{3}{4}$ lbs.	Each... \$16.30
No. 1914	Reel, for 200 to 300 foot tapes.	Weight each, 4 lbs.	Each.... 19.00
No. 1914	Reel, for 500 foot tapes.	Weight each, $4\frac{1}{2}$ lbs.	Each..... 21.50

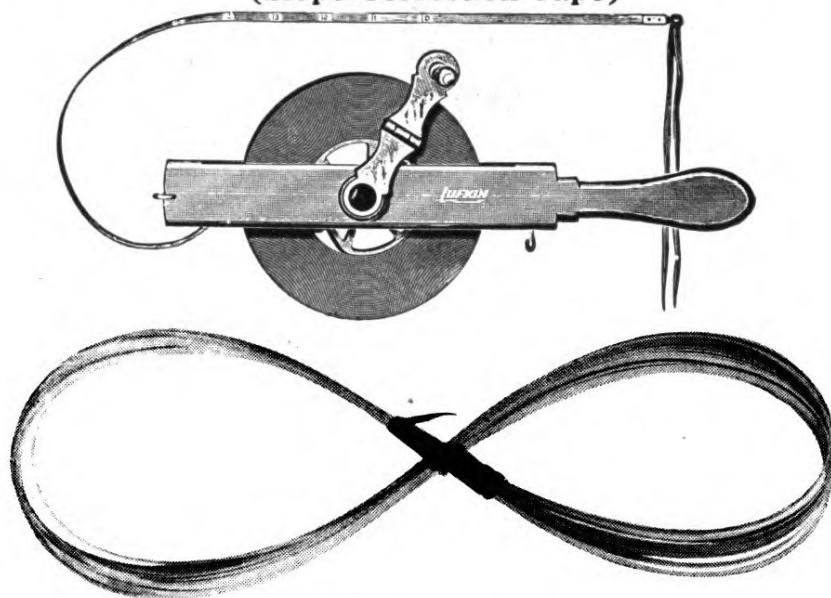


SHOULDERS FOR CHAIN TAPES

Some surveyors use in chaining a tape equipped with shoulders. These shoulders assist in locating the zero and last graduation. They are securely riveted to the tape and can be supplied on any of our chain tapes $\frac{3}{16}$ inch or over in width.

Extra per pair..... \$0.85

***LUFKIN* Topographic Trailer Tape** (Slope Correction Tape)



Used by the United States Forest Service, the Indian Service, by forest rangers, forestry schools, etc. A sturdy steel tape and reel. Line $\frac{1}{4}$ inch wide, approximately .020 inch thick. All graduations etched into raised bright portions, except zero, one and two chain points, which are on brass sleeves securely fastened to tape.

Tape $2\frac{1}{2}$ -chains (165 feet) long. Graduated first two chains (200 links) to links; remaining half chain carries slope graduations numbered 5 to 50. Similar graduations, numbered 6 to 80 and used for very steep slopes, appear on back of the tape starting opposite the 1-chain point.

Heavy brass end clips, and each tape supplied with a pair of leather thongs. Furnished with or without reel. Line is readily detached from reel. Reel of polished hardwood with folding winding handle and nickel plated mountings.

Determine slope by using a topographic level. Reading the slope on the arc, measure two chains on the slope and as many graduations on the trailer as the arc reading shows. This distance measured on the slope represents a horizontal distance of two chains. In similar manner, one chain horizontal distance is determined by using the trailer graduations which appear on back of tape commencing opposite the 1-chain mark.

Number	List Price, Each
05165T	Topographic Trailer Tape Without Reel, With Thongs.
	Length $2\frac{1}{2}$ chains (2 chains plus trailer)..... \$14.25
5165T	Topographic Trailer Tape With Reel and Thongs.
	Length $2\frac{1}{2}$ chains (2 chains plus trailer)..... 18.75
Weight each, without reel, 3 lbs.; with reel, 4 lbs.	

Note: Tapes furnished with extra link before zero in 10ths, no extra charge.

THE LUFKIN RULE CO.

Saginaw, Michigan
106 Lafayette St., New York City

36-A



"ARTISAN" STEEL TAPES

Instantaneous Readings.

"Nubian" Finish.

A STANDARD WIDTH AND WEIGHT, MEDIUM LENGTH TAPE
AT MODERATE PRICE

The "Artisan" line affords the mechanic, at moderate cost, tapes 8 to 20 feet long with line and case heavy enough to stand hard service.

An accurate steel tape in nickel plated steel case with knurled edge, affording firm grip. Flush folding handle opened by push button.

WITH THREE-EIGHTHS INCH TAPES

Marked feet, inches and 16ths, one side only

No.	108	112	115	120
Length	8 ft.	12 ft.	15 ft.	20 ft.
Weight per doz., lbs.	3¼	3¾	4	4½
Price, per doz.	\$24.00	\$28.80	\$33.60	\$38.40

Marked metric and English

One side feet, inches and 16ths; other side millimetres throughout

No.	112EM	115EM
Length	12 ft. (3 metres)	15 ft. (5 metres)
Weight per doz., lbs.	3¾	4
Price, per doz.	\$34.20	\$40.20

With Diameter Measurements

Enable one by applying tape to any circumference to arrive at its diameter down to 64ths of an inch.

Marked consecutive inches to 16ths one side; diameter measurements on back

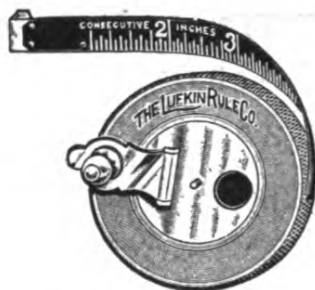
No.	108P	112P	115P	120P	*115PM
Length	96 inches	144 inches	180 inches	240 inches	5 metres
Weight per doz., lbs.	3¼	3¾	4	4½	4
Price, per doz.	\$28.80	\$34.20	\$40.20	\$48.00	\$40.20

(*No. 115PM marked mm one side, diameter measure in metric other side)

Packing: ½ dozen in a box

NOTE—For "Artisan" Millmens Tapes with hook on end for measuring steel sheets, tubes, etc., see page 38.

For "Artisan" Tree Tape for foresters, see page 19.



MILLMENS STEEL TAPE WITH HOOK

"Artisan" Pattern

**USED ON METAL SHEETS, TUBING, ETC., AT MILLS AND WAREHOUSES.
ENABLES ONE MAN TO TAKE MEASUREMENTS.**

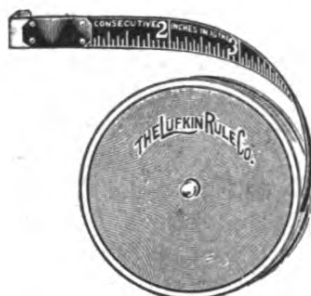
This is the millmens tape which, because of its durability, we especially recommend. A $\frac{3}{8}$ inch wide standard weight steel tape, with flat steel hook riveted to first end. Zero falls at inside of hook. The line is marked one side only consecutive inches to 16ths, i. e., inches numbered from 1 to 144, "Nubian" Finish. Case of steel, nickel plated, and with knurled edge, affording firm grip. Flush folding handle opened by push button.

No. 112CH Length, 144 inches (12 ft.). Weight per doz., 4 lbs. Per doz. \$32.40

Packing: One-half dozen in a box

Above tape line only, with hook, without case:

No. 0112CH Per doz. \$18.00



MILLMENS STEEL TAPE WITH HOOK

Spring-wind Pattern

This tape differs from the one above principally in that it is spring-wind pattern and has narrower medium weight line.

The line is $\frac{5}{16}$ inch wide. It is marked one side only consecutive inches to 16ths (inches numbered 1 to 144); "Nubian" Finish. Flat steel hook is riveted to first end and zero falls at inside of hook. Case is of nickel-silver, spring-wind, with center stop.

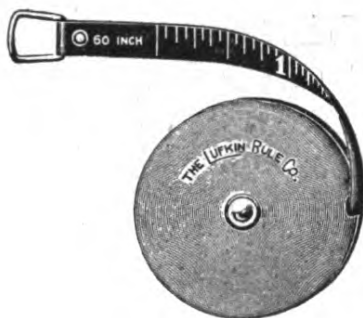
No. 1512CH Length, 144 inches (12 ft.). Weight per doz., 3 lbs. Per doz. . . . \$36.00

Packing: One-half dozen in a box

Above tape line only, with hook, without case:

No. 01512CH Per doz. \$19.80

NOTE—Millmens tapes marked feet, inches and 16ths, price same as in consecutive inches. Specify as "112H" and "1512H", respectively.



**POCKET TAPES ARE MORE UNIVERSALLY USED THAN ANY OTHER
CLASS OF MEASURING TAPES**

They find ready sale not only at hardware and tool stores, but also at engineering, technical and professional supply houses, as well as stationery and drug stores, novelty shops, etc. Our pocket tapes are of the most popular, durable types. All have metal cases, and are of sizes most convenient to carry.

POCKET STEEL TAPES

"Nubian" Finish

ROUND-EDGE, NICKEL PLATED CASES, SPRING-WIND, CENTER STOP

This is the popular line of high grade Pocket Steel Tapes

WITH ONE-QUARTER INCH STEEL TAPES

Marked inches to 16ths, one side only

No.	143	145	146	148*
Length	36 inch	60 inch	72 inch	96 inch
Weight per doz., lbs.....	1	1 1/4	1 1/4	1 1/2
Price, per doz.....	\$9.00	\$11.40	\$12.00	\$18.00

(*When marked feet, inches and 16ths, known as No. 148F, price same as No. 148)

Marked inches to 16ths one side; feet, 10ths and 100ths of feet other side

No.	143D	145D	146D	148D
Length	36 inch	60 inch	72 inch	96 inch
Weight per doz., lbs.....	1	1 1/4	1 1/4	1 1/2
Price, per doz.....	\$9.60	\$12.60	\$15.00	\$21.00

Marked inches to 16ths one side; millimetres other side

No.	143EM	145EM	146EM	148EM
Length	36 in. (1 metre)	60 in. (1 1/2 metre)	72 in. (2 metre)	96 in. (2 1/2 metre)
Wt. doz., lbs..	1	1 1/4	1 1/4	1 1/2
Price, per doz. \	\$9.60	\$12.60	\$15.00	\$21.00

Packing: One-half dozen in a box

NOTE—For Pocket Linen and Cotton Tapes, see pages 56 and 57

Suffix "DM" Indicates markings Feet, 10ths and 100ths of Feet on one side; Metric on other side. Prices same



POCKET STEEL TAPES

"Nubian" Finish

SQUARE-EDGE, NICKEL-SILVER CASES, SPRING-WIND, CENTER STOP

Our finest line of pocket tapes, cases being of nickel-silver. Lengths up to 12 feet, the longest practical in spring-wind construction.

WITH ONE-QUARTER INCH STEEL TAPES

Marked inches to 16ths, one side only

No.	153	155	156	158
Length	36 inch	60 inch	72 inch	96 inch
Weight per doz., lbs.	$\frac{3}{4}$	$1\frac{1}{4}$	$1\frac{1}{4}$	$1\frac{1}{2}$
Price, per doz.	\$10.20	\$13.20	\$14.40	\$21.00

Marked inches to 16ths one side; millimetres other side

No.	153EM	155EM	156EM
Length	36 inch (1 metre)	60 inch ($1\frac{1}{2}$ metre)	72 inch (2 metre)
Weight per doz., lbs.	$\frac{3}{4}$	$1\frac{1}{4}$	$1\frac{1}{4}$
Price, per doz.	\$10.80	\$14.40	\$17.40

WITH FIVE-SIXTEENTHS INCH STEEL TAPES

Marked feet, inches and 16ths, one side only

No.	1510	1512
Length	10 feet	12 feet
Weight per doz., lbs.	$2\frac{1}{2}$	$2\frac{3}{4}$
Price, per doz.	\$30.00	\$32.40

Marked feet, inches and 16ths one side; feet, 10ths and 100ths of feet other side

No.	1510D	1512D
Length	10 feet	12 feet
Price, per doz.	\$33.60	\$37.20

Marked feet, inches and 16ths one side; millimetres other side

No.	1510EM	1512EM
Length	10 feet (3 metres)	12 feet ($3\frac{3}{4}$ metres)
Price, per doz.	\$33.60	\$37.20

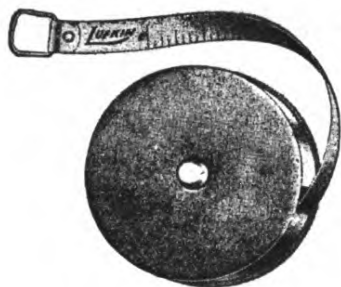
With Diameter Measurement

Inches to 16ths one side; other side diameter measurement, enabling one by applying tape to circumference to determine directly the diameter down to $\frac{1}{64}$ th inch.

No. 1512P Length, 144 inches (12 ft.). Weight per doz., $2\frac{3}{4}$ lbs. Price, per doz. \$37.20

Packing: All packed $\frac{1}{2}$ dozen in a box

NOTE—For Millmens Tape with hook, No. 1512CH, see page 38.



"MARVEL" POCKET STEEL TAPES

"Nubian" Finish

SQUARE-EDGE, NICKEL PLATED CASES, SPRING-WIND, CENTER STOP

A good, serviceable steel pocket tape, although lower in price than those shown on preceding pages.

WITH ONE-QUARTER INCH STEEL TAPES

Marked inches to 16ths, one side only

No.....	3143*	3145	3146
Length.....	36 inch	60 inch	72 inch
Weight per doz., lbs.....	$\frac{3}{4}$	1	1
Price, per doz.....	\$6.00	\$9.00	\$10.20

Marked inches to 16ths one side, millimetres other side

No.	3143EM*	3145EM	3146EM
Length	36 inch (1 metre)	60 inch (1 $\frac{1}{2}$ metre)	72 inch (2 metre)
Weight per doz., lbs.	$\frac{3}{4}$	1	1
Price, per doz.	\$7.20	\$10.20	\$12.00

Packing: $\frac{1}{2}$ doz. in a box

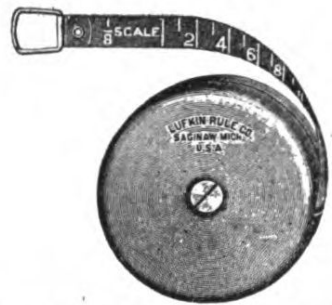


*The big sellers in this line, Nos. 3143 and 3143EM, are regularly put up in an attractive display box containing one dozen tapes. This has proven the most effective method of selling pocket tapes in quantities. Each of these boxes is packed within an outer one for protection. One gross tapes (12 boxes) per carton.

(These items can also be furnished in ordinary rather than display boxes, i. e., $\frac{1}{2}$ dozen to a box, as listed above. Specify if so wanted.)

No. 3143	36 inch.	In display box.	Weight per gross, 9 lbs.	Price, per gro.	\$72.00
No. 3143EM	36 inch.	(1 metre).	In display box.	Weight per gross, 9 lbs.	
Price, per gross					\$6.40

NOTE—For "Marvel" Pocket Linen Tapes, see page 56.



POCKET STEEL TAPES WITH ARCHITECTS SCALES

FOR QUICKLY MEASURING SCALE DRAWINGS OR BLUE PRINTS OF BUILDINGS, PLANS, ETC.

Tapes of best quality steel, $\frac{1}{4}$ inch wide, in "Nubian" Finish. The cases are nickel plated and polished. They are round-edge pattern, spring-wind with center stop.

Marked in $\frac{1}{8}$ inch architect's scale, 1 to 480, one side; inches to 16ths other side
No. 391 60-inch. Weight per doz., $1\frac{1}{4}$ lbs. Price, per doz.\$12.60

Marked in $\frac{1}{4}$ inch architect's scale, 1 to 240, one side; inches to 16ths other side
No. 392 60-inch. Weight per doz., $1\frac{1}{4}$ lbs. Price, per doz.\$12.60

Marked in $\frac{1}{8}$ inch architect's scale one side; $\frac{1}{4}$ inch architect's scale other side
No. 393 60-inch. Weight per doz., $1\frac{1}{4}$ lbs. Price, per doz.\$12.60



POCKET STEEL TAPE WITH ARCHITECTS AND ENGINEERS SCALES

A handy combination for architects, draftsmen and engineers. A $\frac{3}{8}$ inch wide, two metre ($78\frac{3}{4}$ inch) steel tape in "Nubian" Finish. Put up in square-edge nickel-silver case, spring-wind with center stop.

One side of tape marked full length upper edge to millimetres, lower edge inches to 16ths; other side laid off in 12-inch sections, marked both edges, and carrying $\frac{1}{8}$, $\frac{3}{8}$, $\frac{1}{4}$, $\frac{1}{2}$, $\frac{3}{4}$, 1, $1\frac{1}{2}$ and 3-inch architect's scales with subdivisions, and engineer's scales of 10, 20, 30 and 40 parts to the inch.

No. 398 2 metres ($78\frac{3}{4}$ inches). Weight per doz., $2\frac{1}{4}$ lbs. Price, per doz.\$37.80

METRIC CONVERSION STEEL TAPE

For determining with ease and certainty the metric equivalents of English weights and measures, and vice versa. On this tape the English and metric weights and measures are placed in their corresponding relations so one can be converted into the other directly. Especially valuable to exporters, importers, shippers, and others.

A $\frac{5}{16}$ inch wide, 2 metre ($78\frac{3}{4}$ inch) steel tape in "Nubian" Finish. Case of nickel-silver, square-edge, spring-wind with center stop. Line marked one side upper edge millimetres, lower edge inches to 16ths; other side marked upper edge to represent pounds and ounces, lower edge kilograms also properly subdivided.

No. 396 2 metres ($78\frac{3}{4}$ inches). Weight per doz., 2 lbs. Price, per doz.\$31.20

Packing: All packed $\frac{1}{2}$ doz. in a box

POINT OF BEGINNING OF MEASUREMENT ON STEEL TAPES



Showing tape measuring from end of ring (outer end)



Showing tape with blank space first end

OUR STANDARD PRACTICE ON STEEL TAPES IS AS FOLLOWS:

All catalogued long steel tapes marked one side only measure from end of ring, except:

- (1) Engineers Pattern Tapes (which measure from end of tape).
- (2) Chain Tapes (which have blank space first end).
- (3) Plumb Bob Tapes (which measure from lower end of bob).

All catalogued long steel tapes marked both sides have blank space first end, except:

- (1) Standard pattern tapes marked links on back (which measure from end of ring).
- (2) Engineers Pattern Tapes (which measure from end of tape).
- (3) Plumb Bob Tapes (which measure from lower end of bob).

All catalogued Pocket Steel Tapes and "Artisan" Tapes, marked one or both sides, have blank space first end, except:

- (1) Millmens Tapes (which measure from inside of hook).

NOTE—While the above is our standard practice, any of our steel tapes (except pocket tapes) will, without extra charge, be furnished in either style.

SPECIAL GRADUATIONS ON STEEL TAPES

We are prepared to put the following special graduations on steel tapes, aside from the regular graduations listed throughout Section One of this Catalog. (Tapes in special graduations do not have *Instantaneous* Readings.)

Prices for these special markings are quoted on request.

ONE-QUARTER INCH STEEL TAPES:

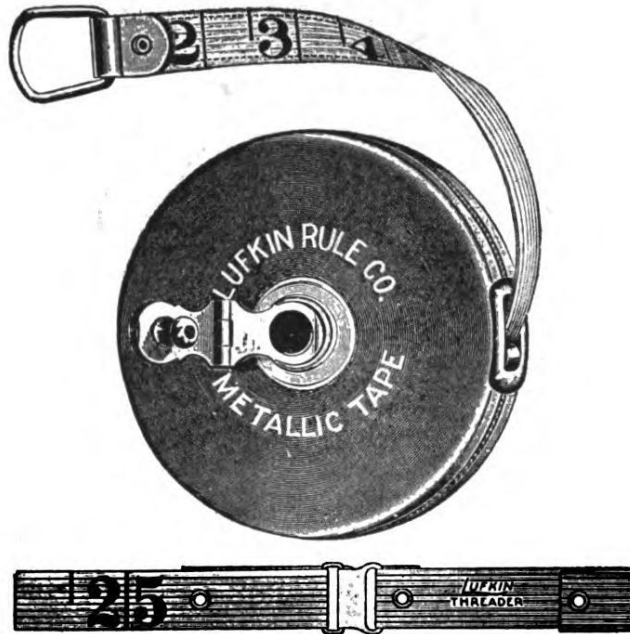
Feet and inches only, inches not subdivided.
Feet, inches and quarters.
Feet, inches and 32nds.
Feet, inches and 8ths, left hand (figures running right to left).
Feet, 10ths and 100ths of feet, left hand (figures running right to left)
Feet, 10ths and 100ths of feet, upper edge (regular is lower edge)
Consecutive inches to 16ths (up to 300 inches, 25 feet).
Links and poles (also links to 10ths and to 100ths throughout).
Diameter measurements.
Slope correction measurements ($\frac{1}{4}$ inch etched Chain Tapes).
Feet, 10ths and 100ths of feet (special on Chain Tapes).
Type measurements (pocket tapes)
Vara measurements.
Nya and Gamla (Swedish) measurements.
Norsk (Norwegian) measurement.

THREE-EIGHTHS INCH STEEL TAPES:

Feet and inches only, inches not subdivided.
Feet, inches and quarters.
Feet, inches and 10ths of inches.
Feet, inches and 16ths (see foot notes).
Feet, inches and 32nds.
Feet, inches and 8ths, left hand (figures running right to left).
Feet, 10ths and 100ths of feet, left hand (figures running right to left).
Consecutive inches to 16ths (up to 600 inches, 50 feet).
Yards and fractions of yards to $\frac{1}{32}$ yard (up to 20 yards).
Yards and quarter yards only (up to 20 yards).
Links and poles (also links to 100ths throughout).
Millimetres throughout entire length.
Burgos (Spanish Vara) measurement.
Other Vara measurements.
Nya and Gamla (Swedish) measurements.
Norsk (Norwegian) measurement.
Vershok and Sagene (Russian) measurements.

ONE-HALF INCH STEEL TAPES:

Feet and inches only, inches not subdivided.
Feet, inches and 10ths of inches.
Feet, inches and 12ths of inches.
Feet, inches and 16ths (see foot notes).
Feet, inches and 8ths, left hand (figures running right to left).
Feet, 10ths and 100ths of feet, left hand (figures running right to left).
Consecutive inches to 8ths (up to 600 inches, 50 feet).
Links and poles.
Millimetres throughout entire length.
Burgos (Spanish Vara) measurement.
Other Vara measurements.
Nya and Gamla (Swedish) measurements.
Norsk (Norwegian) measurement.
Vershok and Sagene (Russian) measurements.



METALLIC TAPES Folding Handle

THE WIDELY USED, HIGHEST GRADE WOVEN TAPE

The Metallic is recommended for use where it is not practical to employ a steel tape and where the closest degree of accuracy is not required. It is the best woven line. This tape we weave, coat and mark by the most approved methods known to insure satisfactory service.

The line is $\frac{3}{8}$ inch wide, of linen with metallic warp. It has leather reinforcement first end. It is clearly marked and has prominent figures. The case is of genuine russet leather, hand-stitched, with metal liner and substantial folding handle. Trimmings nickel plated. Patent threader shown above makes removal of an old and attaching of a new line most simple.

WITH FIVE-EIGHTHS INCH METALLIC TAPES

		Marked one side only					
Feet and inches.....	No.	500	501	503	504	505	506
Feet and 10ths.....	No.	500D	501D	503D	504D	505D	506D
Length, feet	25	33	50	66	75	100	
Weight each, ozs.	9	11	13	18	21	24	
Price, each		\$3.10	\$3.60	\$4.50	\$5.10	\$5.60	\$7.00

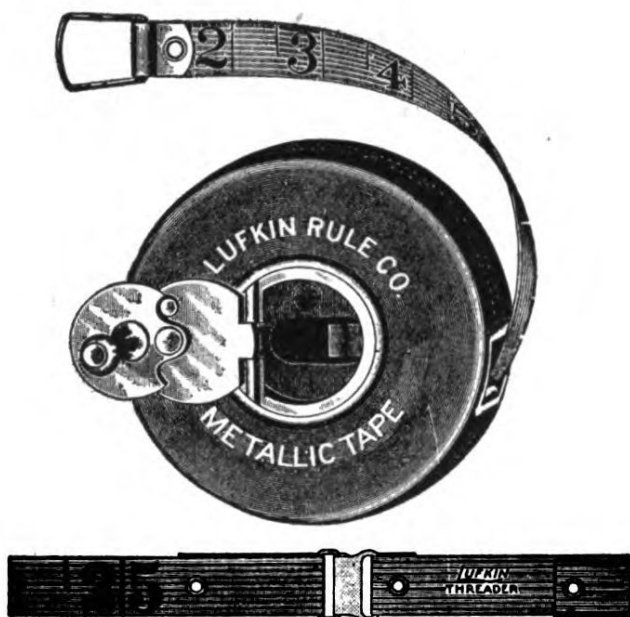
		Marked metric one side only (metres to centimetres throughout)					
No.	500 $\frac{1}{2}$ M	501M	503M	504M	505 $\frac{1}{2}$ M	506M	
Length, metres.....	5	10	15	20	25	30	
Weight each, ozs.	9	11	13	18	21	24	
Price, each ...		\$2.90	\$3.60	\$4.50	\$5.10	\$6.20	\$7.00

		Marked metric and English					
		One side metric (metres to centimetres throughout)					
		One side English (feet and inches)					
No.	500 $\frac{1}{2}$ ME	501ME	503ME	504ME	505 $\frac{1}{2}$ ME	506ME	
Length, metres.....	5	10	15	20	25	30	
Length, feet	15	33	50	66	82	100	
Weight each, ozs.	9	11	13	18	21	24	
Price, each		\$3.20	\$3.80	\$4.70	\$5.40	\$6.50	\$7.60

		Marked links on back					
		(The use of tapes marked links on back has been practically discontinued in the United States)					
Feet and inches one side, links on back...	No.	500L	501L	503L	504L	505L	506L
Feet and 10ths one side, links on back...	No.	500DL	501DL	503DL	504DL	505DL	506DL
Length, feet	25	33	50	66	75	100	
Weight each, ozs.	9	11	13	18	21	24	
Price, each		\$3.25	\$3.80	\$4.70	\$5.40	\$6.00	\$7.60

Packing: One in a box

NOTE—For Metallic Tapes without cases, see page 48



METALLIC TAPES

Double-Folding Flush Handle

OUR BEST WOVEN TAPE, IN FLUSH HANDLE CASE

Recommended for use where impractical to employ a steel tape and where the closest degree of accuracy is not required. It is the best woven line. This tape we weave, coat and mark by the most approved methods known to insure satisfactory service.

The $\frac{3}{8}$ inch wide line is of linen, with metallic warp. It has leather reinforcement first end, is clearly marked and has prominent figures.

Case of genuine russet leather, hand-stitched, with metal liner. The winding handle is of superior construction, double-folding flush pattern opened by push pin. Nickel plated trimmings. Patent threader shown above makes removal of an old and attaching of a new line most simple.

WITH FIVE-EIGHTHS INCH METALLIC TAPES

		Marked one side only					
Feet and inches.....	No.	600	601	603	604	605	606
Feet and 10ths.....	No.	600D	601D	603D	604D	605D	606D
Length, feet		25	33	50	66	75	100
Weight each, ozs.		10	11	15	18	21	26
Price, each.....		\$3.80	\$4.35	\$5.25	\$5.80	\$6.35	\$7.80

		Marked metric one side only (metres to centimetres throughout)					
No.		600 $\frac{1}{2}$ M	601M	603M	604M	605 $\frac{1}{2}$ M	606M
Length, metres.....		5	10	15	20	25	30
Weight each, ozs.....		9	11	15	18	22	26
Price, each		\$3.60	\$4.35	\$5.25	\$5.80	\$6.90	\$7.80

		Marked metric and English					
		One side metric (metres to centimetres throughout)					
		One side English (feet and inches)					
No.		600 $\frac{1}{2}$ ME	601ME	603ME	604ME	605 $\frac{1}{2}$ ME	606ME
Length, metres.....		5	10	15	20	25	30
Length, feet.....		15	33	50	66	82	100
Weight each, ozs.		9	11	15	18	22	26
Price, each		\$3.90	\$4.50	\$5.45	\$6.15	\$7.25	\$8.30

		Marked links on back					
		(The use of tapes marked links on back has been practically discontinued in the United States)					
Feet and inches one side, links on back....	No.	600L	601L	603L	604L	605L	606L
Feet and 10ths one side, links on back....	No.	600DL	601DL	603DL	604DL	605DL	606DL
Length, feet		25	33	50	66	75	100
Weight each, ozs.		10	11	15	18	21	26
Price, each		\$4.00	\$4.50	\$5.45	\$6.15	\$6.70	\$8.30

Packing: One in a box

NOTE—For Metallic Tapes without cases, see page 48



JUNIOR METALLIC TAPES

Folding Handle

SMALLEST, MOST CONVENIENT TO CARRY, OF OUR LONG WOVEN TAPES.

POPULAR FOR LIGHT WORK

The Junior is a narrower ($\frac{1}{16}$ inch) Metallic line compactly put up. It is about one-half the size and weight of our $\frac{3}{16}$ inch tapes.

The line is of linen with metallic warp and is clearly marked. Case is of genuine russet leather with metal liner. It has folding flush handle opened by push pin on opposite side. Nickel plated trimmings. Patent threader shown above makes removal of an old and attaching of a new line most simple. This tape is not made over 66 feet long.

WITH SEVEN-SIXTEENTHS INCH JUNIOR METALLIC TAPES

Marked one side only				
Feet, inches and 8ths of inches..No.	660	661	663	664
Feet, 10ths and 100ths of feet..No.	660D	661D	663D	664D
Length, feet	25	33	50	66
Weight each, ozs.	6	6	8	11
Price, each	\$3.25	\$3.60	\$4.10	\$5.00
Marked metric and English				
One side metric (metres to centimetres throughout)				
One side English (feet, inches and 8ths)				
No.	660 $\frac{1}{2}$ ME	661 ME	663 ME	664 ME
Length, metres	5	10	15	20
Length, feet	15	33	50	66
Price, each	\$3.20	\$3.80	\$4.30	\$5.30

Packing: One in a box

METALLIC AND JUNIOR METALLIC TAPES WITHOUT CASES

METALLIC ($\frac{1}{8}$ INCH WIDE) TAPES ONLY

For No. 500 and No. 600 Series Tapes

Marked one side only									
Ft. & in....No.	0500	0501	0503	0504	0505	...	0506		
Ft. & 10ths..No.	0500D	0501D	0503D	0504D	0505D	...	0506D		
Metric...No.	0500 $\frac{1}{2}$ M	0501M	0503M	0504M	...	0505 $\frac{1}{2}$ M	0506M		
Length, feet.....	25	33	50	66	75	...	100		
Length, metres....	5	10	15	20	...	25	30		
Price, each	\$1.00	\$1.45	\$1.80	\$2.50	\$2.90	\$3.25	\$3.80	\$4.70	
Marked both sides									
Metric and English									
No.	0500 $\frac{1}{2}$ ME	0501 ME	0503 ME	0504 ME	...	0505 $\frac{1}{2}$ ME	0506 ME		
Feet and inches, links on back									
No.	0500L	0501L	0503L	0504L	0505L	...	0506L		
Feet and 10ths, links on back									
No.	0500DL	0501DL	0503DL	0504DL	0505DL	...	0506DL		
Lgth. ft..	15	25	33	50	66	75	82	100	
Lgth. met.	5	...	10	15	20	...	25	30	
Price, ea.	\$1.20	\$1.65	\$2.00	\$2.70	\$3.25	\$3.60	\$4.20	\$5.25	

JUNIOR METALLIC ($\frac{7}{16}$ INCH WIDE) TAPES ONLY

Marked one side only				
Feet and inches.....	No. 0660	0661	0663	0664
Feet and 10ths.....	No. 0660D	0661D	0663D	0664D
Length, feet	25	33	50	66
Price, each	\$1.35	\$1.65	\$2.25	\$2.70
Marked both sides				
Metric and English				
No.	0660 $\frac{1}{2}$ ME	0661 ME	0663 ME	0664 ME
Length, metres.....	5	10	15	20
Price, each	\$1.10	\$1.85	\$2.45	\$3.00



"STERLING" LINEN TAPES

A STRICTLY HIGH GRADE TAPE ESPECIALLY POPULAR WITH TELEPHONE AND TELEGRAPH COMPANIES., ETC., FOR ORDINARY WORK

This line, in general appearance similar to the Metallic, is without the metallic warp. While no woven tape should be depended upon for the closest degree of accuracy, the "Sterling" is well made from the best of materials and is serviceable.

Five-eighths inch wide linen tape with leather reinforcement first end. Markings are clear and figures prominent. Case of genuine russet leather, metal lined, with folding flush handle and nickel plated trimmings.

WITH FIVE-EIGHTHS INCH LINEN TAPES

		Marked one side only					
Feet and inches.....	No.	400	401	403	404	405	406
Feet and 10ths.....	No.	400D	401D	403D	404D	405D	406D
Length, feet.....		25	33	50	66	75	100
Weight each, ozs.....		8	11	12	17	19	24
Price, each.....		\$3.00	\$3.35	\$4.00	\$4.70	\$5.10	\$6.00

		Marked metric one side only (metres to centimetres throughout)					
No.....		400½M	401M	403M	404M	405½M	406M
Length, metres.....		5	10	15	20	25	30
Weight each, ozs.....		8	11	12	17	19	24
Price, each.....		\$2.80	\$3.35	\$4.00	\$4.70	\$5.40	\$6.00

		Marked metric and English					
		One side metric (metres to centimetres throughout)					
		One side English (feet and inches)					
No.....		400½ME	401ME	403ME	404ME	405½ME	406ME
Length, metres.....		5	10	15	20	25	30
Length, feet.....		15	33	50	66	82	100
Weight each, ozs.....		8	11	12	17	19	24
Price, each.....		\$3.10	\$3.60	\$4.20	\$5.10	\$5.90	\$6.65

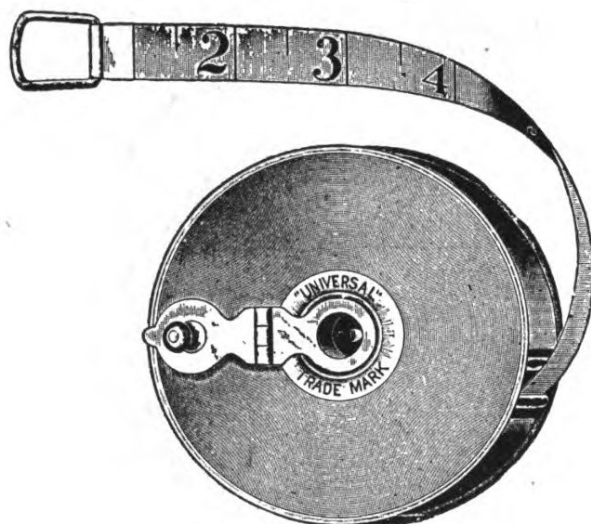
Packing: One in a box

"STERLING" TAPES WITHOUT CASES

		Marked one side only					
Ft. & in.....	No.	0400	0401	0403	0404	0405	0406
Ft. & 10ths.....	No.	0400D	0401D	0403D	0404D	0405D	0406D
Metric.....	No.	0400½M	0401M	0403M	0404M	0405½M	0406M
Length, feet.....		25	33	50	66	75	100
Length, metres.....		5	10	15	20	25	30
Price, each.....		\$0.95	\$1.40	\$1.75	\$2.40	\$2.80	\$3.00

		Marked both sides					
Metric and English..	No.	0400½ME	0401ME	0403ME	0404ME	0405½ME	0406ME
Length, metres.....		5	10	15	20	25	30
Length, feet.....		15	33	50	66	82	100
Price, each.....		\$1.10	\$1.95	\$2.60	\$3.15	\$3.90	\$4.75

Packing: One in a box



ON THIS AND REMAINING PAGES OF THIS SECTION OF CATALOG ARE SHOWN THE LOW PRICED AND POPULAR WOVEN TAPES, OUR "UNIVERSAL" BRAND. WHILE GOOD TAPES OF THEIR KIND, THESE SHOULD NOT BE CONFUSED WITH OUR METALLIC AND "STERLING" LINES, SHOWN ON PRECEDING PAGES. WE CALL SPECIAL ATTENTION TO THE FACT THAT OUR "UNIVERSAL" TAPES ARE PACKED IN INDIVIDUAL BOXES, PROTECTING AND KEEPING THEM IN BEST CONDITION.

ASS SKIN TAPES

LOWEST IN PRICE OF OUR LONG WOVEN TAPES.
DESIGNED FOR ORDINARY WORK.

This popular priced tape would be convenient in every home, and particularly on the farm, where long measurements are often to be taken.

Half inch wide cotton line, clearly marked and well coated. Sheet steel case, brass bound, with sides cream enameled. Brass folding handle and trimmings.

WITH ONE-HALF INCH COTTON TAPES

Marked feet and inches, one side only

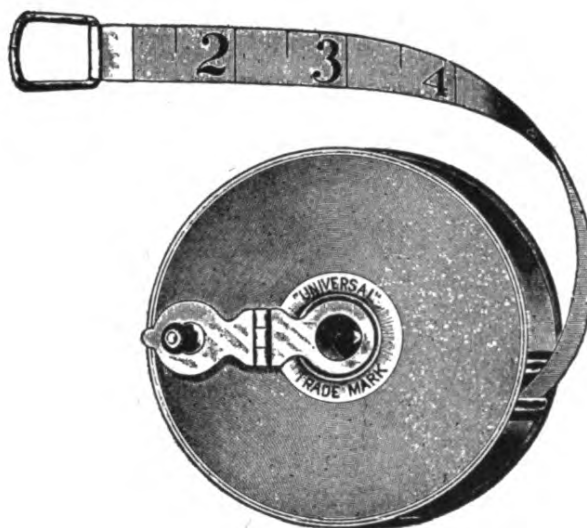
No.	710	711	713	714	715	716
Length, feet	25	33	50	66	75	100
Weight per doz., lbs.	2¾	3¼	4	5¼	5¾	7
Price, per doz.	\$6.60	\$7.20	\$9.00	\$10.80	\$13.20	\$16.20

Marked metric and English

One side metric (metres to centimetres throughout)
One side English (feet and inches)

No.	711ME	713ME	714ME	715½ME	716ME
Length, metres.....	10	15	20	25	30
Length, feet	33	50	66	82	100
Weight per doz., lbs.	3¼	4	5¼	6	7
Price, per doz.	\$9.60	\$12.60	\$15.00	\$20.40	\$22.80

Packing: One in a box, ½ doz. in a carton



"UNIVERSAL" TAPES

Medium Grade

EXTRA GRADE COTTON LINE IN ENAMELED METAL CASE

Line clearly marked and well coated. Sheet steel case, brass bound, with sides maroon enameled. Brass folding handle and trimmings.

WITH ONE-HALF INCH EXTRA GRADE COTTON TAPES

Marked feet and inches, one side only

No.	720	721	723	724	725	726
Length, feet	25	33	50	66	75	100
Weight per doz., lbs.	2¾	3¼	4	5¼	5¾	7
Price, per doz.....	\$8.40	\$9.00	\$11.40	\$13.20	\$15.60	\$19.20

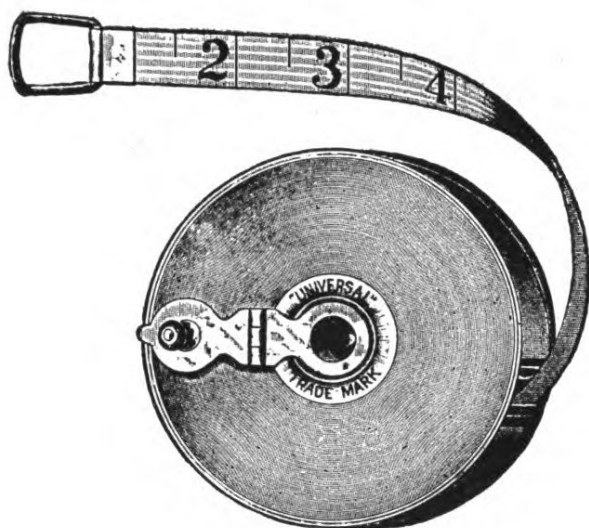
Marked metric and English

One side metric (metres to centimetres throughout)
One side English (feet and inches)

No.	721ME	723ME	724ME	725 ½ ME	726ME
Length, metres.....	10	15	20	25	30
Length, feet	33	50	66	82	100
Weight per doz., lbs. .	3¼	4	5¼	6	7
Price, per doz.....	\$11.40	\$14.40	\$17.40	\$22.80	\$25.80

Packing: One in a box, ½ doz. in a carton

NOTE—For this line in pressed leather case, see page 53.



"UNIVERSAL" TAPES Extra Grade

WIDELY KNOWN AS THE "RAILROAD TAPE", SEE PARTICULARLY No. 733R.
AN INEXPENSIVE, YET STRONG TAPE, AFFORDING A VERY FAIR
DEGREE OF ACCURACY FOR A WOVEN LINE

This tape we recommend for any rough measuring. Wherever tried out it is rapidly replacing cheap cotton tapes.

The line is extra durable, being corded with pure, unbleached linen. It is $\frac{1}{2}$ inch wide and well coated. Sheet steel case, brass bound, with sides maroon enameled. Brass folding handle and trimmings.

The Reinforced Tape, No. 733R, Is An Especially Good Value. It Is Standard Equipment of Most Railroads for Common Maintenance Work. It Has First Three Feet of Tape Double and Stitched. This Prolongs the Life of the Tape, the First End Receiving By Far the Most Wear.

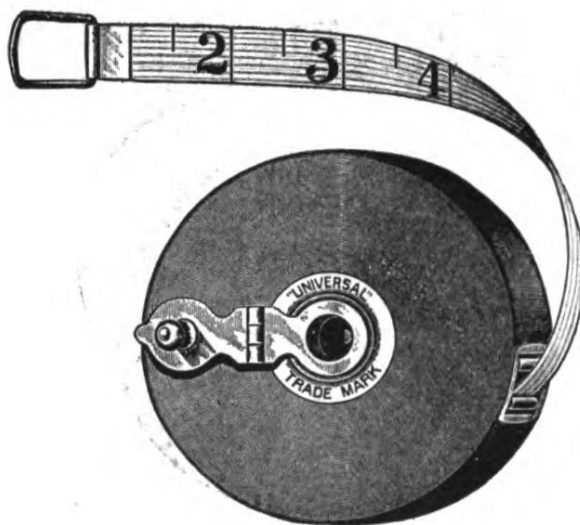
WITH ONE-HALF INCH LINEN CORDED TAPES

Marked feet and inches, one side only							
No.	730	731	733	733R (reinforced)	734	735	736
Length, feet	25	33	50	50	66	75	100
Weight per doz., lbs.	2 $\frac{3}{4}$	3 $\frac{1}{2}$	4 $\frac{1}{4}$	4 $\frac{1}{2}$	5 $\frac{1}{2}$	6	7
Price, per doz.	\$9.00	\$10.20	\$14.40	\$16.80	\$16.20	\$18.00	\$22.20

Marked metric and English						
One side metric (metres to centimetres throughout) One side English (feet and inches)						
No.	731ME	733ME	733R-ME (reinforced)	734ME	735 $\frac{1}{2}$ ME	736ME
Length, metres	10	15	15	20	25	30
Length, feet	33	50	50	66	82	100
Weight per doz., lbs. ...	3 $\frac{1}{2}$	4 $\frac{1}{4}$	4 $\frac{1}{2}$	5 $\frac{1}{2}$	6 $\frac{1}{4}$	7
Price, per doz.	\$12.00	\$17.40	\$19.80	\$20.40	\$25.20	\$28.80

Packing: One in a box, $\frac{1}{2}$ dozen in a carton

NOTE—For this line in pressed leather case, see page 53.
For $\frac{1}{4}$ inch and $\frac{3}{8}$ inch linen corded lines in genuine leather cases, see pages 54 and 55.



"UNIVERSAL" TAPES Extra Grade

PREFERRED BY SOME TO A METAL CASE, YET LOWER IN PRICE THAN THE
GENUINE LEATHER

This is our linen corded line like the No. 730 and 930 series but put up in case of medium grade.

A strong tape with very fair degree of accuracy for a woven line. Half inch wide, corded with pure unbleached linen, and well coated. Pressed leather case of russet color. Heavy brass folding handle, brass trimmings.

WITH ONE-HALF INCH LINEN CORDED TAPES

Marked feet and inches, one side only						
No.	1030	1031	1033	1034	1035	1036
Length, feet	25	33	50	66	75	100
Weight per doz., lbs. . .	3 3/4	4	4 3/4	6	6 1/2	7 3/4
Price, per doz.	\$16.80	\$18.00	\$25.80	\$30.60	\$33.00	\$38.40

Marked metric and English						
One side metric (metres to centimetres throughout)						
One side English (feet and inches)						
No.	1031ME	1033ME	1034ME	1035 1/2 ME	1036ME	
Length, metres	10	15	20	25	30	
Length, feet	33	50	66	82	100	
Weight per doz., lbs. . .	4	4 3/4	6	6 3/4	7 3/4	
Price, per doz.	\$20.40	\$28.80	\$34.80	\$41.40	\$45.00	

"UNIVERSAL" TAPES Medium Grade

EXTRA GRADE COTTON LINE IN PRESSED LEATHER CASE

Line clearly marked and well coated. Put up in pressed leather case of russet color. Heavy brass folding handle, brass trimmings.

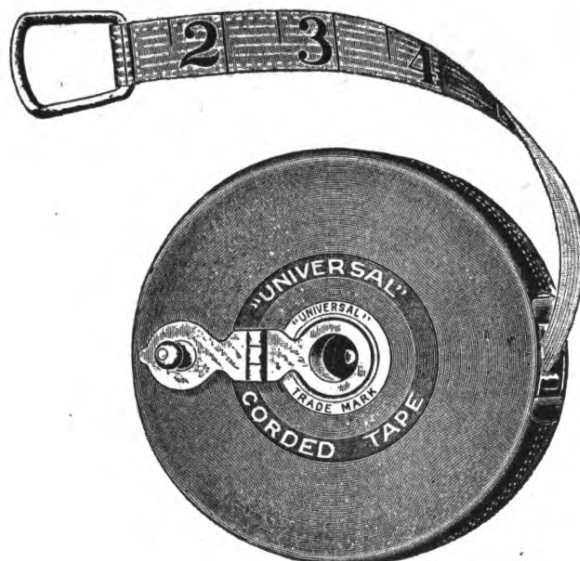
WITH ONE-HALF INCH EXTRA GRADE COTTON TAPES

Marked feet and inches, one side only						
No.	1020	1021	1023	1024	1025	1026
Length, feet	25	33	50	66	75	100
Weight per doz., lbs. . .	3 1/2	3 3/4	4 1/2	6	6 1/4	7 1/2
Price, per doz.	\$12.60	\$14.40	\$20.40	\$22.80	\$25.80	\$32.40

Marked metric and English						
One side metric (metres to centimetres throughout)						
One side English (feet and inches)						
No.	1021ME	1023ME	1024ME	1025 1/2 ME	1026ME	
Length, metres	10	15	20	25	30	
Length, feet	33	50	66	82	100	
Weight per doz., lbs. . .	3 3/4	4 1/2	6	6 1/2	7 1/2	
Price, per doz.	\$16.20	\$24.00	\$27.60	\$33.60	\$38.40	

Packing: All above, one in a box, 1/2 doz. in a carton

NOTE—For 1030 series line in leather case, see page 54; and in enameled metal case, see page 52
For 1020 series tapes in enameled metal case, see page 51



"UNIVERSAL" TAPES

Extra Grade

Linen corded line in leather case

FOR THOSE WHO WISH A GOOD YET MEDIUM PRICED TAPE

This is our lowest priced woven tape in genuine leather case.

The line is durable, being corded with pure, unbleached linen. It is $\frac{1}{2}$ inch wide and well coated. It has a very fair degree of accuracy for a woven line. Case is of genuine russet leather, hand-stitched and with metal liner. Heavy brass folding handle, brass trimmings.

WITH ONE-HALF INCH LINEN CORDED TAPES

Marked feet and inches, one side only

No.	930	931	933	934	935	936
Length, feet	25	33	50	66	75	100
Weight per doz., lbs. . .	4 $\frac{3}{4}$	5 $\frac{1}{2}$	6 $\frac{1}{2}$	7 $\frac{3}{4}$	8	11
Price, per doz.	\$24.60	\$27.00	\$31.80	\$33.60	\$36.00	\$40.80

Marked metric and English

One side metric (metres to centimetres throughout)
One side English (feet and inches)

No.	931ME	933ME	934ME	935 $\frac{1}{2}$ ME	936ME
Length, metres	10	15	20	25	30
Length, feet	33	50	66	82	100
Weight per doz., lbs.	5 $\frac{1}{2}$	6 $\frac{1}{2}$	7 $\frac{3}{4}$	8 $\frac{1}{4}$	11
Price, per doz.	\$29.40	\$34.80	\$38.40	\$43.80	\$47.40

Packing: One in a box, $\frac{1}{2}$ doz. in a carton

NOTE—For this tape $\frac{5}{8}$ inch wide, see page 55.
For this tape in metal case, see page 52.
For this tape in pressed leather case, see page 53.



"UNIVERSAL" TAPES
Extra Grade
Linen corded line in leather case

THE WIDTH AND WEAVE GIVE THIS TAPE EXTRA DURABILITY

Exactly same as No. 930 series, page 54, but with tape $\frac{3}{8}$ inch wide, affording greater durability and more prominent figures.

This line is corded with pure, unbleached linen and is well coated. It has great tensile strength and holds its length well. Case of genuine russet leather, hand-stitched, and with metal liner. Heavy brass folding handle, brass trimmings.

WITH FIVE-EIGHTHS INCH LINEN CORDED TAPES

Marked feet and inches, one side only

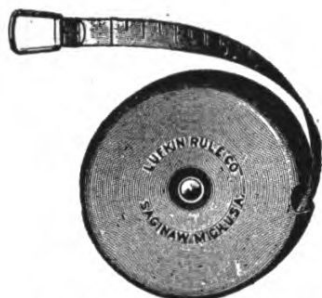
No.	940	941	943	944	945	946
Length, feet	25	33	50	66	75	100
Weight per doz., lbs. . .	5 $\frac{1}{4}$	6	6 $\frac{3}{4}$	9	9 $\frac{1}{4}$	11
Price, per doz.	\$27.00	\$29.40	\$36.00	\$38.40	\$40.80	\$45.00

Marked metric and English

One side metric (metres to centimetres throughout)
One side English (feet and inches).

No.	941ME	943ME	944ME	945 $\frac{1}{2}$ ME	946ME
Length, metres	10	15	20	25	30
Length, feet	33	50	66	82	100
Weight per doz., lbs.	6	6 $\frac{3}{4}$	9	9 $\frac{1}{2}$	11
Price, per doz.	\$31.80	\$39.60	\$42.60	\$48.00	\$51.60

Packing: One in a box, $\frac{1}{2}$ doz. in a carton



POCKET LINEN TAPES

ROUND-EDGE, NICKEL PLATED CASES, SPRING-WIND, CENTER STOP

These are our best woven pocket tapes. They are, in a fabric line, the equivalent of the No. 143 Pocket Steel Tapes, page 39. The lines are enameled linen, woven to width in our own factories.

Pocket Linen Tapes, appealing also to the ladies, are sold through many channels.

WITH ONE-QUARTER INCH LINEN TAPES

Marked inches to 8ths, one side only

No.	173	175	176
Length	36 inch	60 inch	72 inch
Weight per doz., lbs.	$\frac{3}{4}$	1	$1\frac{1}{4}$
Price, per doz.	\$6.60	\$7.80	\$9.00

Marked inches to 8ths one side; millimetres other side

No.	173EM	175EM	176EM
Length	36 inch (1 metre)	60 inch (1 $\frac{1}{2}$ metre)	72 inch (2 metre)
Weight per doz., lbs.	$\frac{3}{4}$	1	$1\frac{1}{4}$
Price, per doz.	\$7.20	\$8.40	\$9.60

WITH FIVE-SIXTEENTHS INCH LINEN TAPES

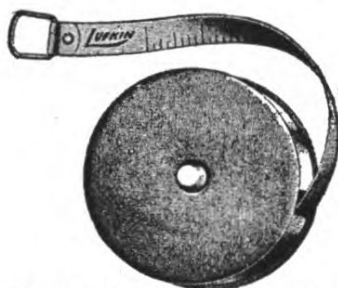
Marked inches to 8ths, one side only

No. 188 Length, 96 inches. Weight per doz., 2 lbs. Price, per doz. \$15.00

Marked feet, inches and 8ths, one side only

No. 188F Length, 8 ft. Weight per doz., 2 lbs. Price, per doz. \$15.00

NOTE—For Pocket Steel Tapes, see pages 39, 40 and 41.



"MARVEL" POCKET LINEN TAPES

SQUARE-EDGE, NICKEL PLATED CASES, SPRING-WIND, CENTER STOP

Our popular priced linen pocket tapes, a companion line to the "Marvel" Pocket Steel Tapes, page 41. These tapes also sell in quantities through the department stores, novelty shops and bazaars, as well as the hardware trade.

One-quarter inch wide enameled linen tapes (woven to width).

The "Marvel" is a good medium grade tape.

WITH ONE-QUARTER INCH LINEN TAPES

Marked inches to 8ths, one side only

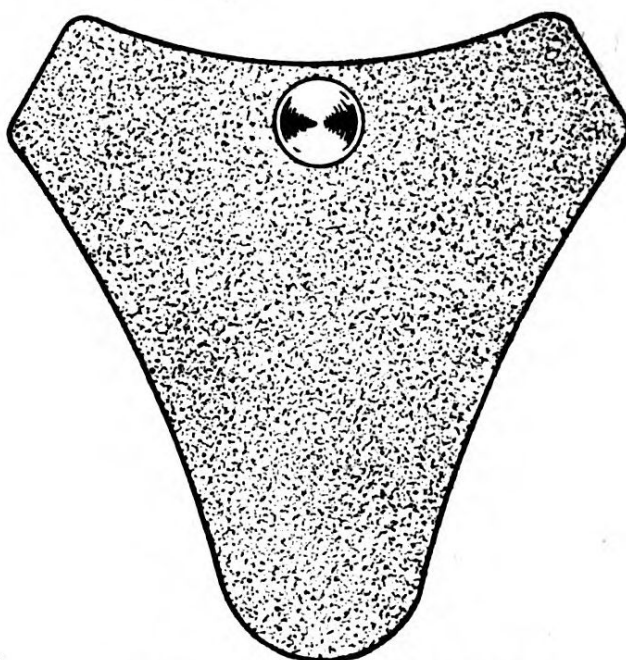
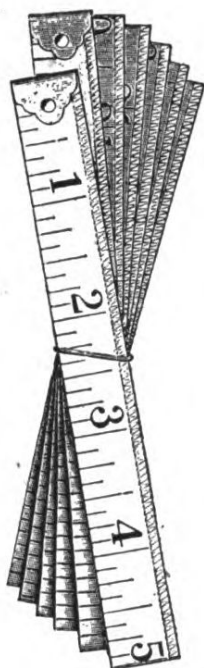
No.	3173	3175	3176
Length	36 inch	60 inch	72 inch
Weight per doz., lbs.	$\frac{3}{4}$	1	1
Price, per doz.	\$3.60	\$5.40	\$6.00

Marked inches to 8ths one side; millimetres other side

No.	3173EM	3175EM	3176EM
Length	36 inch (1 metre)	60 inch (1 $\frac{1}{2}$ metre)	72 inch (2 metre)
Weight per doz., lbs.	$\frac{3}{4}$	1	1
Price, per doz.	\$4.80	\$6.00	\$6.60

Packing: All above $\frac{1}{2}$ doz. in a box.

NOTE—For "Marvel" Pocket Steel Tapes, see page 41.



Crotch Piece. (2/3 actual size)

TAILORS OR DRESSMAKERS TAPES

These Tapes are made of double thickness sateen, with lock-stitched edge, and metal-tipped ends. Figures are placed vertically on all tapes 7/16 inch wide, horizontally on those 9/16 inch wide. All have clear, black markings on both sides; are carefully folded, stapled and boxed.

Tapes of Series 671-A and 691-A have durable Crotch Piece or Tab, of hard, smooth press board, nicely formed as shown above. By means of glove or snap fastener this piece is quickly and securely attached. It is also readily detached, making the tape line suitable for all other common uses.

TAILORS TAPES

(Without Crotch Piece or Attachment)
Marked Inches and 8ths, Both Sides.

Opposite Sides Measur'g From Reverse Ends	Both Sides Measur'g From Same End	Grade	Width	Length	Price Per Gross
No. 471	No. 671	Common	7/16 inch	60 inch	\$ 7.00
No. 472	No. 672	Medium	7/16 inch	60 inch	8.50
No. 473	No. 673	Best	7/16 inch	60 inch	12.00
No. 491	No. 691	Common	9/16 inch	60 inch	\$ 8.00
No. 492	No. 692	Medium	9/16 inch	60 inch	10.00
No. 493	No. 693	Best	9/16 inch	60 inch	14.00

Average weight per gross . . . 4½ lbs.

TAILORS TAPES WITH DETACHABLE CROTCH PIECE

Marked Inches and 8ths, Both Sides.

Both sides measure from same end.

Number	Grade	Width	Length	Price, Per Gross
671-A	Common	7/16 inch	60 inch	\$12.00
672-A	Medium	7/16 inch	60 inch	13.50
673-A	Best	7/16 inch	60 inch	17.00
691-A	Common	9/16 inch	60 inch	\$13.00
692-A	Medium	9/16 inch	60 inch	15.00
693-A	Best	9/16 inch	60 inch	19.00

Average weight per gross . . . 7 lbs.

Note: Advertisement printed on Crotch Piece at small extra charge, lots of 10 gross or more.

Packing: 1 dozen in a box, 1 gross in a carton.



"UNIVERSAL" POCKET TAPES

SQUARE-EDGE, NICKEL PLATED CASES, SPRING-WIND, CENTER STOP

These tapes, while selling at a popular price, are attractive and serviceable. Sixty-inch, painted cotton lines, $\frac{1}{4}$ inch wide, woven to width so they will not fray out.

Packed in very attractive colored display boxes of one dozen. This box sits inclined, showing the goods to best advantage on counter,

in show case, or window

These tapes sell in quantities at dry goods, department and general stores, novelty shops and bazaars, as well as through the hardware trade.

Marked inches to 8ths, one side only

No. 165 Length, 60 inches. Weight per gross, 9 lbs.
Price, per gross.....\$24.00

Marked inches to 8ths one side; millimetres other side

No. 165EM Length, 60 in. ($1\frac{1}{2}$ metres). Weight per gross, 9 lbs.
Price, per gross.....\$30.00

Packing: One doz. per box, 12 boxes (1 gross tapes) in a carton

SPECIAL GRADUATIONS ON WOVEN TAPES

We are prepared to put the following special graduations on woven tapes, aside from the regular or common graduations listed throughout Section Two of this catalog. Prices quoted on application.

$\frac{5}{8}$ INCH METALLIC AND "STERLING" LINEN TAPES:

Feet only, not subdivided.
Burgos (Spanish Vara) measurement.
Palmos (Catalan) measurement.
Argentine Vara measurement.
Nya and Gamla (Swedish) measurements.
Norsk (Norwegian) measurement.

$\frac{1}{2}$ INCH LINEN CORDED TAPES:

Gamla (Swedish) measurement.
Norsk (Norwegian) measurement.

$\frac{1}{4}$ INCH POCKET LINEN TAPES:

Gamla (Swedish) measurement.
Norsk (Norwegian) measurement.

POINT OF BEGINNING OF MEASUREMENTS ON WOVEN TAPES

OUR STANDARD PRACTICE ON WOVEN TAPES IS AS FOLLOWS:

All catalogued long woven tapes, single or double graduation, measure from outer end of ring.

All woven pocket tapes have blank space first end.

NOTE—Metallic and "Sterling" Linen tapes will, without extra charge, be furnished with short blank space first end when so specified.

Section Three
MECHANICAL TOOLS
SMALL TOOL DIVISION

THESE goods are the product of our Small Tool Division, a separate and entirely distinct manufacturing division of our plant, yet a unit under the same general management as the production of our Measuring Tapes, etc.

The designing and producing of these Fine Tools is in the hands of engineers and experts not only of broad experience in the making of such goods, but recognized authorities in that line.

Thus in its Small Tool Division the company brings to the manufacture, inspection, etc., of these lines that specialized experience and care necessary to insure each tool coming up to the highest standard.

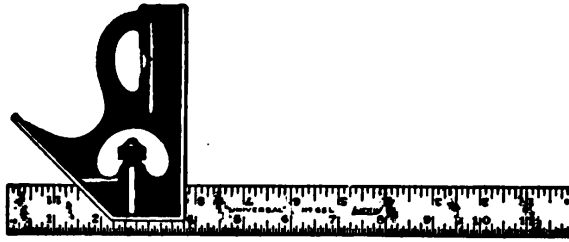
At the same time, being a part of the organization of The Lufkin Rule Co. and governed by the same general policies, is assurance that there will be built for this entire line the same high reputation that Lufkin Tapes and Rules have borne for many years.

Steel Scales and Folding Steel Rules we have long manufactured. A most noteworthy improvement in steel rules, Readable Graduations, was first brought out by this company some years ago. It consists of numbering the 64ths every eighth line, which greatly facilitates reading.

To the Tools shown in this Section others will steadily be added completing the line.

Lufkin Mechanical Tools have many improved and exclusive features that will make them the most popular with mechanics and dealers.

For Pages 60 to 106 inclusive
See Precision Tool Catalog No. 6



**"UNIVERSAL" TRY AND MITRE SQUARES
FOR CARPENTERS
(And All Woodworkers)**

WITH LEVEL — WITHOUT LEVEL

These squares are designed especially for the use of carpenters and all other woodworkers. They combine in one tool the try and mitre squares with blade adjustable in length, the level and plumb, marking gage, height and depth gage, and separate rule. While popular priced, they are accurate, durable, and well designed.

They consist of a graduated steel blade, grooved on one side and fitted with metal head, which, by means of a convenient thumb nut, can be securely clamped at any point along the blade, and also is removable from it.

Blade, or rule, is accurately and clearly marked on both edges of both sides. The head has square and mitre faces and is furnished with and without level glass.

Marked both sides, one edge 8ths, other edge 16ths inches.

With Level		Without Level	
No. 65L	9 inch.....Each, \$1.35	No. 65	9 inch.....Each, \$1.10
No. 65L	12 inch.....Each, 1.50	No. 65	12 inch.....Each, 1.25

**Marked Metric Only.
(Millimetres both edges of both sides)**

With Level		Without Level	
No. 65L-M	20 cm.....Each, \$1.35	No. 65M	20 cm.....Each, \$1.10
No. 65L-M	30 cm.....Each, 1.50	No. 65M	30 cm.....Each, 1.25

Marked Metric and English.

**One side, one edge millimetres, other edge inches to 16ths.
Other side, one edge millimetres, other edge inches to 8ths.**

With Level		Without Level	
No. 65L-ME	20 cm.....Each, \$1.35	No. 65ME	20 cm.....Each, \$1.10
No. 65L-ME	30 cm.....Each, 1.50	No. 65ME	30 cm.....Each, 1.25

Weight each: 9 inch (20 cm), 12 ozs.; 12 inch (30 cm), 16 ozs.

Packing: One in a box.



STEEL SHRINK RULES

Etched Graduations

Of spring tempered steel $1\frac{1}{8} \times \frac{3}{64}$ inch. Sunken graduation. While accurate rules, the graduation of these is neither as fine nor close as on No. 83 Rules, page 106. Recommended only for use where a fine degree of accuracy is not essential.

All Graduated 8ths and 16ths, Both Sides.

All Made in 24 Inch Length Only.

No.	90A	90B	90C	90D	90E	90F	90G	90H	90J	90R
Shrink per ft., in. . .	1/16	1/12	1/10	3/32	1/8	3/16	1/4	5/16	7/16	5/32

Length, 24 inch.

Weight each, 5 ozs.

Price, each \$2.25

Packing: One in a package.



No. 62



No. 60

STRAIGHT STEEL RULES

These rules also have bright surface, distinct black sunken figures and lines. They have hole in one end.

No. 62 is well adapted to such general work as requires a long, one-piece steel rule of medium weight, with common markings somewhat heavier than on machine divided scales.

No. 60 is a narrower, lighter weight rule of somewhat similar type. It has become especially popular in manual training work.

No. 62 $1\frac{1}{4} \times \frac{1}{16}$ inch. Marked both sides, upper edge 8ths, lower 16ths.

Length	1 ft.	2 ft.	3 ft.	4 ft.	5 ft.	6 ft.
Weight doz., lbs.	3 1/4	6 1/4	9 1/2	11 1/4	15	18 3/4
Price, each	\$1.25	\$2.10	\$3.00	\$4.60	\$6.25	\$8.00

No. 60 $\frac{3}{4} \times \frac{1}{32}$ inch. Marked lower edge only, one side 8ths, other side 16ths.

Length	1 ft.	2 ft.
Weight, per doz.	14 ozs.	2 lbs.
Price, each	\$0.45	\$0.85



Figure 1



Figure 2



Figure 3

MECHANICS REFERENCE TABLES

These tables are especially handy for machinists, tool makers, and die makers, as they carry valuable information required in daily work. They are convenient also for anyone having occasion to refer to wire gages, decimal equivalents of common fractions, or tap and drill sizes.

Made of flexible spring steel $1\frac{1}{4}$ inches wide and $6\frac{3}{4}$ inches long, and carrying a 6-inch graduated scale. Machine divided, with figures and graduations showing black and distinct. Hole at upper end.

No. 97 $\frac{1}{2}$ Marked both sides as Figures 1 and 2. Price, each.....\$0.90

No. 98 Marked both sides as Figures 2 and 3. Price, each..... .90

Figure 1 A table of U. S. S. Machine Screw Tap Sizes in fractional and numbered sizes, and S. A. E. and Briggs pipe standard in fractional sizes. Also a 6-inch scale graduated to 32nds.

Figure 2 A table of decimal equivalents of fractions in 64ths from $1/64$ to $63/64$, and a 6-inch scale graduated to 64ths with Readable Graduations.

Figure 3 A table of decimal equivalents of wire gages, and a 6-inch scale graduated to 32nds.

Weight per doz., 12 oza.

Packing: Six in a box.

NOTE—Cases can be furnished for these tables at small extra charge.



THE DECIMETRE RULE A KEY TO THE METRIC SYSTEM

As this rule gives a most comprehensive visual demonstration of metric sizes, it has been termed a key to the metric system. For educational purposes it has been widely distributed by the United States Bureau of Standards, The American Metric Association, and The Decimal Association of London, England.

It is of tempered steel, machine divided. The rule is 1 decimetre long, 1 centimetre wide and 1 millimetre thick. As shown by above illustrations it is marked one edge, one side, in centimetres and millimetres, and carries on both sides interesting facts regarding the metric system. Furnished with metal bound leather case.

No. 99 Length 10 cm (1 dm). Price, each..... \$0.50



ENGLISH PATTERN STEEL RULES

Flexible — Machine Divided

Of spring tempered steel, very thin and flexible, $\frac{1}{2}$ inch wide, 30 gage. One end rounded and with hole.

All Marked One Side Only.

- No. 2110D Marked upper edge 32nds, lower edge 64ths inch.
 No. 2110DM Marked upper edge metric to half-millimetres, lower edge 64ths inch.
 No. 2111D Marked lower edge 64ths, upper edge 100ths inch.

Nos. 2110D, 2110DM, 2111D

Length	4 inch	6 inch	9 inch	12 inch
Weight per doz.	3 oz.	4 oz.	7 oz.	8 oz.
Price, per doz.	\$3.60	\$4.80	\$9.60	\$14.40

Packing: $\frac{1}{2}$ doz. in a box.



ENGLISH PATTERN STEEL RULES

Machine Divided — Tempered

Tapping and Spanner

The 4 and 6 inch rules are $\frac{3}{4}$ inch wide, 21 gage; 12 inch rules, $1\frac{1}{8}$ inch wide, 19 gage. All have one end rounded and with hole.

- No. 2721 Marked one side only. Lower edge 16ths, 32nds, 64ths inches; upper edge tapping and spanner sizes.

Length	4 inch	6 inch	12 inch
Price, per doz.	\$3.60	\$4.80	\$12.00

- No. 2722 Marked both sides. One side, lower edge 16ths, 32nds, 64ths inches, upper edge tapping and spanner sizes; other side, lower edge 16ths, upper edge 10ths, 20ths, 50ths, 100ths inches.

Length	4 inch	6 inch	12 inch
Price, per doz.	\$4.20	\$5.40	\$13.20

- No. 2723 Marked both sides. One side, lower edge 16ths, 32nds, 64ths inches, upper edge tapping and spanner size; other side, upper edge 8ths, lower edge 16ths inches.

Length	4 inch	6 inch	12 inch
Price, per doz.	\$4.20	\$5.40	\$13.20

Weight per doz., 4 inch, 8 ozs.; 6 inch, 10 ozs.; 12 inch, $2\frac{1}{4}$ lbs.

Packing: $\frac{1}{2}$ doz. in a box.

ENGLISH PATTERN STEEL RULES

Machine Divided

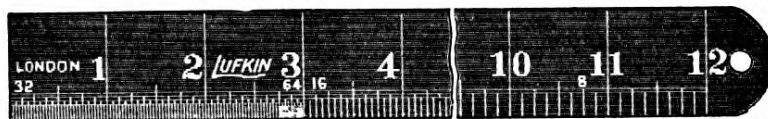


Figure 1



Figure 2

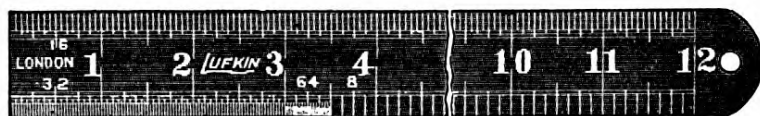


Figure 3

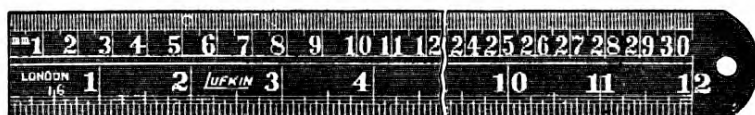


Figure 4



Figure 5

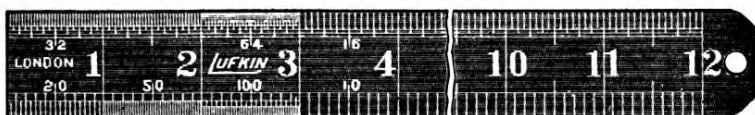


Figure 6

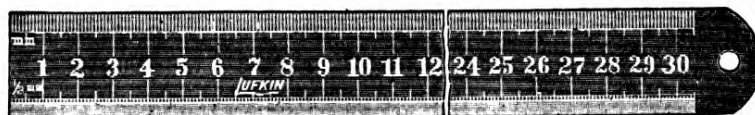


Figure 7

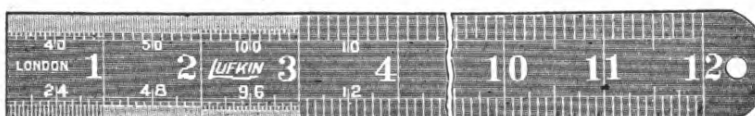


Figure 8

ENGLISH PATTERN STEEL RULES

Machine Divided — Tempered

One End Rounded And With Hole

Numbers without the suffix "N" are $\frac{3}{4}$ inch wide, 21 gage, in 4 and 6 inch lengths; $1\frac{1}{8}$ inch wide, 19 gage, in 12 and 24 inch lengths.

Numbers with the suffix "N" are $\frac{1}{2}$ inch wide, 25 gage.

CUT	MARKINGS	RULE NUMBER	PER DOZEN			
			4 in.	6 in.	12 in.	24 in.
Fig. 1.	One edge of one side only 8ths, 16ths, 32nds and 64ths...	2700 2700N	\$3.60 3.00	\$4.80 3.60	\$12.00 6.60	..........
Fig. 2.	One side only 8ths and 16ths.....	2701 2701N	\$3.60 3.00	\$4.80 3.60	\$12.00 6.60	\$25.20
Fig. 3.	One side only 8ths, 16ths, 32nds and 64ths...	2702 2702N	\$3.60 3.00	\$4.80 3.60	\$12.00 6.60	\$25.20
Fig. 2.	Both sides One side, 8ths and 16ths					
Fig. 3.	Other side, 8ths, 16ths, 32nds and 64ths ...	2703 2703N	\$4.20 3.60	\$5.40 4.20	\$13.20 8.40	\$27.00
Fig. 4.	One side only 16ths inches and millimetres...	2704 2704N	\$3.60 3.00	\$4.80 3.60	\$12.00 6.60	\$25.20
Fig. 5.	One side only 16ths, 32nds and 64ths inches Millimetres and $\frac{1}{2}$ millimetres..	2704 $\frac{1}{2}$ 2704 $\frac{1}{2}$ N	\$3.60 3.00	\$4.80 3.60	\$12.00 6.60	*\$25.20
	(*Also made in $\frac{1}{2}$ and 1 metre lengths. Prices \$24.00 and \$78.00 doz. respectively.)					
Fig. 5.	One side only 16ths, 32nds and 64ths inches, millimetres and $\frac{1}{2}$ millimetres, as Fig. 5, except that mark- ings are reversed, millimetres being on lower edge, inches on upper edge	2704 $\frac{1}{2}$ B 2704 $\frac{1}{2}$ BN	\$3.60 3.00	\$4.80 3.60	\$12.00 6.60	\$25.20
Fig. 6.	One side only 16ths, 32nds and 64ths inches And 10ths, 20ths, 50ths and 100ths inches	2705 2705N	\$3.60 3.00	\$4.80 3.60	\$12.00 6.60	..........
Fig. 6.	Both sides One side, 16ths, 32nds and 64ths inches, 10ths, 20ths, 50ths and 100ths inches					
Fig. 7.	Other side millimetres and $\frac{1}{2}$ millimetres	2706 2706N	\$4.20 3.60	\$5.40 4.20	\$13.20 8.40	..........
Fig. 5.	Both sides One side 16ths, 32nds and 64ths inches, millimetres and $\frac{1}{2}$ millimetres					
Fig. 8.	Other side, 12ths, 24ths, 48ths, 96ths inches and 10ths, 40ths, 50ths and 100ths in. ..	2707 2707N	\$4.20 3.60	\$5.40 4.20	\$13.20 8.40	..........

Wt. per dozen rules without suffix "N": 4 in., 7 ozs.; 6 in., 9 ozs.; 12 in., 2 $\frac{1}{2}$ lbs.; 24 in., 4 $\frac{1}{2}$ lbs.
Wt. per dozen rules with suffix "N": 4 in., 3 ozs.; 6 in., 4 ozs.; 12 in., 1 lb.

Packing: Rules 12 in. and under, $\frac{1}{2}$ doz. in a box; others one in a package.

Danish or Swedish Measurements: Above rules will be supplied with Danish measurements or Swedish measurements, such as Nya and Gamla, if so ordered.

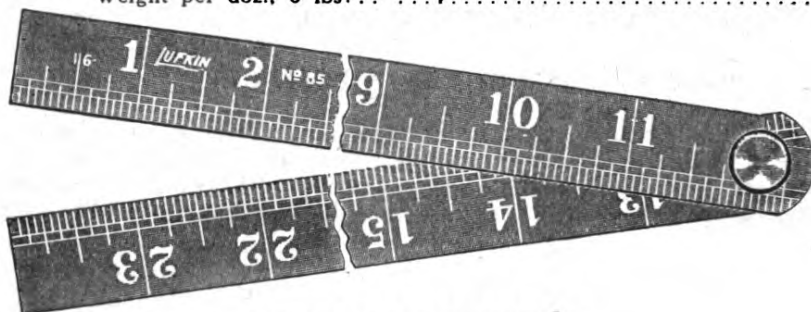


CONTRACTION RULES

English Pattern — Machine Divided

Of tempered steel $1\frac{1}{8}$ inch wide, 19 gage. One end rounded and with hole.
All 24 Inches Long and Graduated to 16ths.

NUMBER		PER DOZ.
2710	Marked one side only; upper edge $1/5$ inch contraction, lower edge $1/10$ inch contraction per foot Weight per doz., 6 lbs.	\$25.20
2711	Marked both sides. Lower edge one side $1/5$ inch contraction, lower edge other side $1/10$ inch contraction per foot. Upper edge both sides regular inches and 16ths. Weight per doz., 6 lbs.	30.60
2712	Marked both sides, $1/10$, $3/20$, $1/5$ inch contraction per foot, and one line regular inches and 16ths. Weight per doz., 6 lbs.	30.60



FOLDING STEEL RULES

12 Inch Sections

Of tempered steel approximately $3/4$ inch wide and $1/32$ inch thick. The sunken dark figures and lines are most legible. All except No. 80 have stop joint. The rules with ends brass tipped are popular with blacksmiths and others working on hot metals. Those with circumference measurement give at a direct reading circumference up to 75 inches opposite the respective diameter.

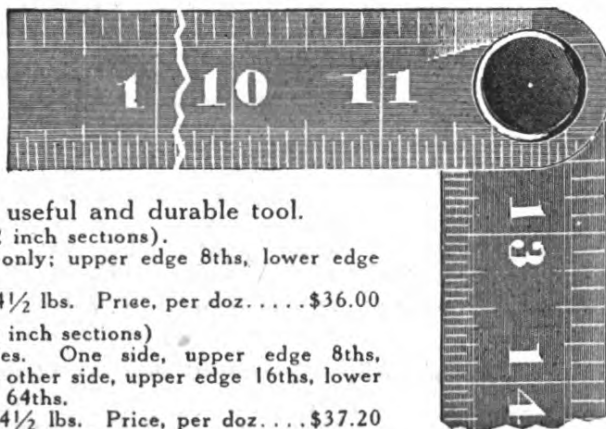
NO.	LENGTH	MARKING	PATTERN	PRICE, EACH
80	2 ft.	One side 8ths, other 16ths inches.	Plain joint. Plain ends	\$1.00
85	2 ft.	One side 8ths, other 16ths inches.	Stop joint. Plain ends	1.25
85T	2 ft.	One side 8ths, other 16ths inches.	Stop joint. Brass tipped ends ...	1.35
86	2 ft.	One side 16ths; other side, upper edge 8ths, lower edge circumference inches to 8ths.	Stop joint. Plain ends	1.45
86T	2 ft.	One side 16ths; other side, upper edge 8ths, lower edge circumference inches to 8ths. Weight per doz., 2 lbs.	Stop joint. Brass tipped ends... Packing: Twelve in a box.	1.55

STEEL RULE AND SQUARE COMBINED

Machine Divided — With Stop Joint

Of tempered steel $1\frac{1}{8}$ inch wide, 19 gage. Square ends. Stop joint holds rule true and rigid when open, also stops the sections at 90 degrees, converting the rule into a square. A convenient, useful and durable tool.

No. 2781	2 foot, 2 fold (12 inch sections). Marked one side only; upper edge 8ths, lower edge 16ths inches. Weight per doz., $4\frac{1}{2}$ lbs. Price, per doz.	\$36.00
No. 2783	2 foot, 2 fold (12 inch sections) Marked both sides. One side, upper edge 8ths, lower edge 16ths; other side, upper edge 16ths, lower edge 8ths, 32nds, 64ths. Weight per doz., $4\frac{1}{2}$ lbs. Price, per doz.	\$37.20
	Packing: $\frac{1}{2}$ doz. in a box.	





No. 1141



FOLDING FLEXIBLE STEEL POCKET RULES

With Stop Joints — "Nubian" Finish

COMPACT AND CONVENIENT TO CARRY EVERYWHERE

High grade popular rules, of flexible spring steel $\frac{3}{8}$ inch wide. Stop joints hold the sections true when open. Over the "Nubian" (black) Finish background, the raised figures and markings, which are in the natural steel color, show up clearly. Rules furnished with or without metal-bound leather cases.

NO.	LENGTH	JOINTS	WT. PER DOZ.	WITHOUT CASES PRICE, EACH	WITH CASES PRICE, EACH
Marked Inches And 16ths, Both Sides.					
1131	1 ft.	3-inch joints	5 ozs.	\$0.55	\$0.65
1132	2 ft.	3-inch joints	7 ozs.	1.10	1.20
1141	1 ft.	4-inch joints	6 ozs.	.55	.65
1142	2 ft.	4-inch joints	11 ozs.	1.10	1.20
1143	3 ft.	4-inch joints	1 lb.	1.65	1.75
1162	2 ft.	6-inch joints	10 ozs.	1.05	1.20
1163	3 ft.	6-inch joints	14 ozs.	1.60	1.75
1164	4 ft.	6-inch joints	1 $\frac{1}{4}$ lbs.	2.10	2.25

Marked Inches And 16ths One Side; Feet, 10ths and 100ths of feet, other side.

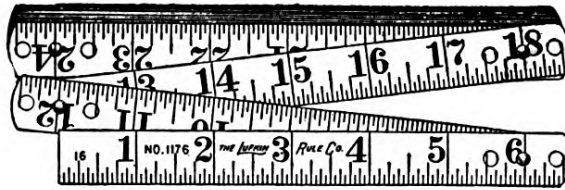
1141D	1 ft.	4-inch joints	6 ozs.	\$0.55	\$0.65
1142D	2 ft.	4-inch joints	11 ozs.	1.10	1.20
1143D	3 ft.	4-inch joints	1 lb.	1.65	1.75
1162D	2 ft.	6-inch joints	10 ozs.	1.05	1.20
1163D	3 ft.	6-inch joints	14 ozs.	1.60	1.75

Marked Inches And 16ths One Side; Millimetres other side.

1141EM	1 ft.	4-inch joints	6 ozs.	\$0.55	\$0.65
1142EM	2 ft.	4-inch joints	11 ozs.	1.10	1.20
1143EM	3 ft.	4-inch joints	1 lb.	1.65	1.75
1163EM	3 ft.	6-inch joints	14 ozs.	1.60	1.75
1164EM	4 ft.	6-inch joints	1 $\frac{1}{4}$ lbs.	2.10	2.25
1143ME	1 metre	10-cm joints	1 $\frac{1}{4}$ lbs.	1.70	1.80
1163ME	1 metre	20-cm joints	1 $\frac{1}{4}$ lbs.	1.65	1.80

Packing: All, twelve in a box, except 4 ft., which are six in a box.

NOTE—Unless cases are specified, we ship rules without cases.



FOLDING STEEL RULES

$\frac{3}{4}$ Inch Wide — With Stop Joints

HEAVIEST AND WIDEST OF OUR LONG FOLDING STEEL RULES.

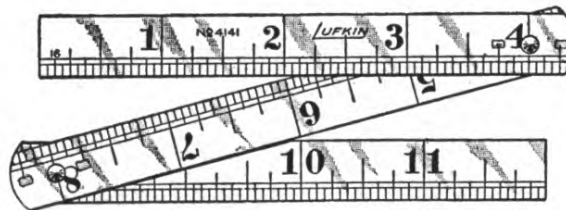
These rules withstand hard use such as in steel mills, machine shops and other places where steel rules of lighter weight and wood rules are often broken. They are of tempered steel, $\frac{3}{4}$ inch wide, $\frac{1}{32}$ inch thick. All have patent stop joints which hold rule true and rigid when open. The sunken black figures and lines give good contrast and legibility. These rules may be depended upon for a very fair degree of accuracy, though on the most precise work a one-piece steel scale should be used.

All Marked One Edge Of Both Sides.

NO.	LENGTH	MARKINGS	JOINTS	WEIGHT PER DOZ.	PRICE, EACH
1172.....	2 ft.	Inches to 16ths.	6-inch	1 $\frac{3}{4}$ lbs.	\$1.30
1173.....	3 ft.	Inches to 16ths.	6-inch	2 $\frac{1}{2}$ lbs.	1.95
1174.....	4 ft.	Inches to 16ths.	6-inch	3 $\frac{3}{4}$ lbs.	2.60
1175.....	5 ft.	Inches to 16ths.	6-inch	5 lbs.	3.25
1176.....	6 ft.	Inches to 16ths.	6-inch	6 $\frac{1}{2}$ lbs.	3.90
1177.....	7 ft.	Inches to 16ths.	6-inch	7 lbs.	4.65
1178.....	8 ft.	Inches to 16ths.	6-inch	8 lbs.	5.40
1174EM....	4 ft.	16ths. inches and millimetres	6-inch	3 $\frac{3}{4}$ lbs.	2.65
1173ME....	1 metre	16ths. inches and millimetres	6-fold	3 lbs.	2.25
1173M....	1 metre	Millimetres both sides	6-fold	3 lbs.	2.35

Packing: 2 ft., 3 ft. and 1 metre rules, twelve in a box; all others six in a box.

NOTE—For Aluminum Folding Rules, see Section Five of this Catalog.



FOLDING STEEL POCKET RULES

Machine Divided — With Stop Joints

MEDIUM WEIGHT — HIGHEST GRADE

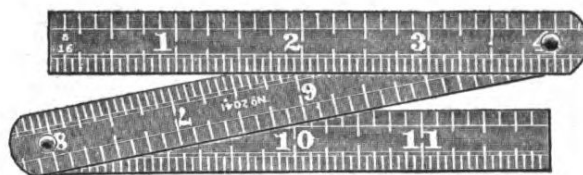
Of tempered steel, width $\frac{1}{2}$ inch, semi-flexible. With sunken figures and lines clear cut and showing up in good contrast. Stop joints hold the rules true and rigid when open. Furnished with or without metal-bound leather cases. These rules may be depended upon for a very fair degree of accuracy, though on the most precise work a one-piece steel scale should be used.

All marked one edge of both sides, one side 8ths, other side 16ths of inches.

NO.	LENGTH	JOINTS	WT. PER DOZ.	WITHOUT CASES PRICE, EACH	WITH CASES PRICE, EACH
4141	1 ft.	4-inch joints	$\frac{1}{2}$ lb.	\$0.85	\$0.95
4142	2 ft.	4-inch joints	1 lb.	1.45	1.55
4143	3 ft.	4-inch joints	1 $\frac{1}{2}$ lb.	2.25	2.35
4144	4 ft.	4-inch joints	2 lbs.	3.00	3.10
4642	2 ft.	6-inch joints	1 lb.	1.40	1.55
4643	3 ft.	6-inch joints	1 $\frac{1}{2}$ lb.	2.20	2.35
4644	4 ft.	6-inch joints	2 $\frac{1}{4}$ lb.	2.95	3.10

Packing: Nos. 4141 and 4642—twelve in a box, all others six in a box.

NOTE—Unless cases are specified, we ship rules without cases.



FOLDING STEEL POCKET RULES Machine Divided — With Plain Joints

High grade rules of tempered steel, $\frac{1}{2}$ inch wide and semi-flexible. With sunken figures and lines clear cut and showing up in good contrast. Furnished with or without metal-bound leather cases.

Number		Without Cases, Price, Ea.	With Cases, Price, Ea.
2041	1 ft. 4-inch joints. Marked both sides, upper edge 8ths, lower edge 16ths inches	\$0.75	\$0.85
2042	1 ft. 4-inch joints. Marked both sides, one side upper edge 8ths, lower edge 16ths; other side upper edge 8ths, lower edge first 2 inches in 32nds, third inch 64ths, balance 16ths inches . . . . .	.85	.95
2043	1 ft. 4-inch joints. Marked both sides, one side upper edge 8ths, lower edge 16ths inches; other side upper edge first 5 centimetres in half-millimetres, balance millimetres, lower edge first 2 inches in 32nds, next $\frac{1}{2}$ inch 64ths, balance 16ths inches . . . . .	.85	.95

Weight per doz., $\frac{1}{2}$ lb. Packing: Twelve in a box.

NOTE—Unless cases are specified, we ship rules without cases.



ONE-FOOT FOLDING STEEL RULES WITH CASES IN UNIQUE DISPLAY

This is our lowest priced, yet a good pocket rule. Of flexible spring steel, folds to 4 inches and is $\frac{3}{8}$ inch wide. Light and convenient to carry in the pocket anywhere. Marked one side only inches to 16ths. It has "Nubian" (black) Finish background, making the raised bright figures and lines most easily read. Cases are metal-bound.

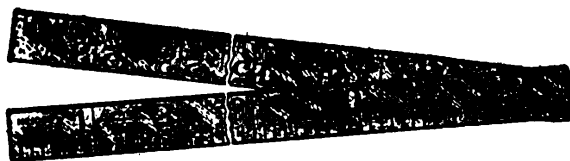
The display device is in colors, has easel back, and will stand securely and attract attention anywhere.

This rule and display are popular with hardware, department and general stores, shops, bazaars, and others. This is the most effective method of selling rules of this class, which appeal to the general public.

No. 041 1 Foot Steel Rule With Case

Weight per gross, $6\frac{1}{4}$ lbs. Price, per gross \$28.80

Packing: One doz. in display, 12 displays (1 gross rules) per carton.



FOLDING BRASS RULE

Popular with blacksmiths and other metal workers. Of hard brass, 9/16 inch wide, 15 gage (approximately 1/16 inch). Marked both sides on one edge, one side inches to 8ths, other side to 16ths.

No. 1085 2 ft. 12-inch sections. With spring joint.

Weight per doz., 3 1/4 lbs. Price, each.....\$1.00

Packing: Twelve in a box.

NOTE—For 2 foot, 2 fold Aluminum Rule, see Section Five of this Catalog.



BLACKSMITHS BRASS HOOK AND HANDLE RULE

For blacksmiths and others working on hot metals, and also for measuring through holes, as hubs, etc. A one-piece rule and hook of hard brass 1 1/16 x 1/10 inch. Sunken and distinct lines and figures. Marked both sides 12 inches to 16ths; one side measures from inside of hook, other side from end of rule. Flat handle. Overall length 16 3/4 inches.

No. 1063 12 inch. Weight each, 1/2 lb. Price, each.....\$2.70



BRASS COUNTER RULES

Convenient wherever goods are sold by the yard. Extensively used in dry goods and department stores. Accurate and most satisfactory to the dealer and the public. All marked one side only, and drilled and counter-sunk for attaching to counter.

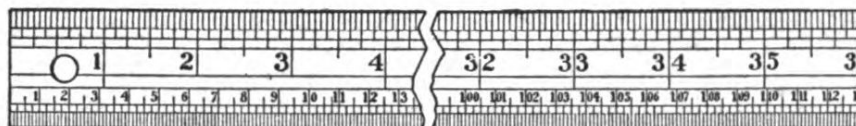
No. 1068 3 ft. 3/4 x 19 gage (1/25 inch), hard brass.
Marked in fractions of yards only as follows: 1/16, 1/8,
1/4, 1/3, 3/8, 1/2, 5/8, 2/3, 3/4 and 7/8.

Weight each, 5 ozs. Price, each.....\$1.50

No. 1069 3 ft. 3/4 in. x 19 gage (1/25 inch), hard brass.

Marked upper edge inches and 8ths, lower edge fractions of yards as follows: 1/16, 1/8, 1/4, 1/3, 3/8, 1/2, 5/8, 2/3, 3/4 and 7/8.

Weight each, 5 ozs. Price, each.....\$2.00



TINNERS STEEL CIRCUMFERENCE RULES

A STANDARD TOOL WITH TINNERS AND OTHER SHEET METAL WORKERS.

Of tempered steel, 1 1/4 x 1/16 inch (16 gage). Furnished in both plain and nickel plated finish.

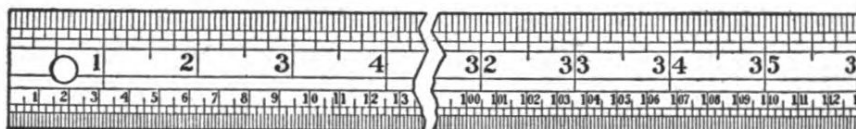
On one side this rule is marked on upper edge in standard measurement inches to 16ths, lower edge circumference inches to 8ths. With it the circumference of any circle is arrived at by simply measuring the diameter. This circumference is obtained at a direct reading, for the circumference markings bear the relation of 3.1416 to standard inches.

Other side of this rule carries a number of the most commonly used mathematical formulas, and size tables for laying out cans and measures as follows:

Liquid Measure, flaring, 1/4 pint to 5 gallons.
 Dry Measure, flaring, 1/4 bushel to 2 bushels.
 Dry Measure, straight, 1 quart to 3 bushels.
 Cans, pitched top, 1 to 10 gallons.
 Cans, flat top, 1 to 100 gallons.

No. 95 PLAIN.	Length	3 ft.	4 ft.
	Price, each	\$3.75	\$4.50
No. 95 NICKEL PLATED.	Price, each	\$4.50	\$5.25
	Weights, each	3/4 lb.	1 lb.

NOTE—These rules can be supplied with the tables on the basis of Imperial, rather than United States wine gallons. They are regularly so furnished to the Canadian trade.

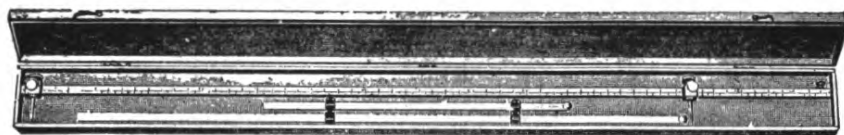
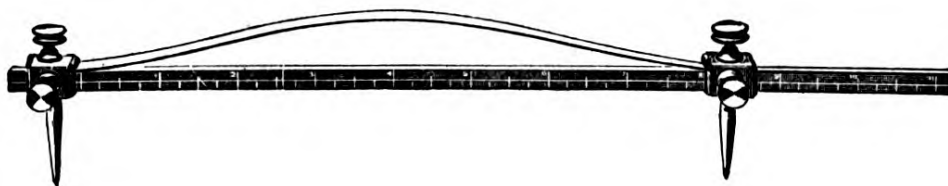


STEEL CIRCUMFERENCE RULES

Of tempered steel, 1 1/4 x 1/16 inch. Furnished in both plain and nickel plated finish.

On one side this rule is marked upper edge inches to 16ths standard measurement, lower edge circumference inches to 8ths. With this, circumferences are determined directly by applying rule to diameter, as fully described in connection with No. 95 above. (This side of No. 96 is identically same as No. 95.) On other side this rule is marked standard measurement only, upper edge 8ths, lower edge 16ths of inches.

No. 96 PLAIN.	Length	3 ft.	4 ft.
	Price, each	\$3.75	\$4.50
No. 96 NICKEL PLATED.	Price, each	\$4.50	\$5.25
	Weights, each	3/4 lb.	1 lb.



THE "MAGIC" PATTERN RULE

With Chart

A GREAT LABOR SAVING TOOL FOR EVERY TIN SHOP.

A most popular device for quickly and accurately laying out sheet metal elbow patterns up to 14 inches in diameter and of any angle. The "Magic" Rule can be used also as a common rule, a circumference rule, a trammel, and a straight edge for ordinary work.

Consists of a graduated 48-inch steel bar $7/16$ inch square, fitted with two brass sliding trammel heads with set screws, gibs and steel points. There is also a set of three flexible steel ribbons of different lengths and gages. The bar and all its parts are nicely nickel plated. The set also includes an instruction chart. The whole outfit is put up in a good hinged wooden box.

The bar is marked diameter inches to 8ths one side, standard inches to 8ths other side. When laying out an elbow pattern, first select the proper one of the three ribbons to be used with the bar. Fasten the left-hand trammel point to the end of the bar, and set the right-hand trammel point according to the diameter elbow wanted. Then raise the steel ribbon to the required height according to the angle elbow wanted. One glance at the chart gives this height.

For example, should an elbow be wanted 6 inches in diameter and of an angle corresponding with the long line "C" on the chart:

Set right-hand trammel point at figure 6 on front of rule. Measure with an ordinary rule the length of the perpendicular line 6 from bottom of diagram to where it meets angle line "C". Raise steel ribbon to this height, fasten it with set screw, and it is set ready for a pattern.

The chart is 18x22 inches in size, mounted on linen and very durable. It carries in addition to the elbow diagram, rules for cutting all kinds of flaring, oval, cylindrical and cone shaped vessels with the aid of the "Magic" rule.

"Magic" Pattern Rule Complete With Chart And Box.

Weight each, 6 lbs. Price, each..... \$12.00

Chart only for "Magic" Rule. Price, each..... \$1.00



CRESCENT TAPE-RULES

REG. U. S. PAT. OFF.

"ALL STAINLESS" CRESCENT TAPE-RULES

REG. U. S. PAT. OFF.

Flexible-Rigid Blade — Automatic Wind

The Accuracy and Convenience of a Pocket Steel Tape The Utility of Both a Rule and a Tape.

These are sturdy, 6 ft. measures. Blade automatically winds into compact case, yet, when withdrawn, is rigid like a rule.

The "Crescent" has highest quality tempered steel blade, and both blade and case nickel plated. In the "All Stainless" both blade and case are of genuine Stainless Steel, rust-proof and non-corrosive. Both are popular in industrial plants, in the building trades, and many other fields. The "All Stainless" is most suitable for use under conditions commonly causing rust.

THE FOLLOWING DETAILS APPLY TO BOTH

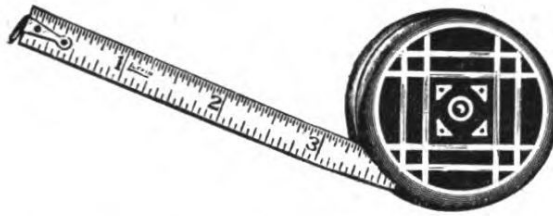
Blade is $\frac{5}{16}$ inch wide and stiffened by special forming. Unsupported it can be projected, like a rule, to walls, ceilings or into openings. It will also flex around and accurately measure circles and odd shapes. Markings are easy to read, being prominent and dark in sharp contrast to the background.

Case is substantial and well finished. It is but 2 inches in diameter and has rounded edges. It has smooth-working spring-winding device, with ratchet stop, and will stand on edge allowing blade to lie flat on the work. Blade is manually withdrawn, automatically and quickly returned by pressing push button, always under complete control. Sliding end hook automatically adjusts itself to accurately take either butt end or hook measurement. Hook pushed back to point of measurement, indicates and holds the measurement. With hook pushed back, blade may be inserted in a narrower opening than hook would enter.

No.		Length	Markings, One Side Only	Each
696	"Crescent".....	72 inch	Inches to 16ths, both edges. (First 6 inches upper edge to 32nds)....	\$2.50
696D	"Crescent".....	6 foot	Feet, 10ths and 100ths of feet upper edge. Feet, inches and 16ths lower edge	2.75
696EM	"Crescent".....	72 inch (2 metre)	Millimetres on upper edge. Inches to 16ths lower edge	2.75
S-696	"All Stainless Crescent"	72 inch	Inches to 16ths.....	3.00
S-696D	"All Stainless Crescent"	6 foot	Feet, 10ths and 100ths of feet upper edge. Feet, inches and 16ths, lower edge	3.25

Weight Per Dozen, $4\frac{1}{2}$ lbs.

Packing: One in a box, six in a carton.



"ARISTOCRAT" TAPE-RULES

**Flexible-Rigid Blade — Manually Operated — Stainless Steel Case.
A Combination of Exceptional Beauty and Utility.**

Compact and most attractive, yet a very practical 6-foot pocket measure. Suitable for general use but also strongly appeals to executives, salesmen, engineers, architects and many others, and makes an ideal gift for any man.

Steel blade, 7/16 inch wide, is nickel plated and has clear, dark markings in sharp contrast. It is manually withdrawn and returned to case, and operates very smoothly. It is stiffened by forming so it can be projected unsupported, like a rule, yet, it will also flex to accurately measure circles and odd shapes. Solid hook at first end is just the thing for measuring either within or beyond arms reach.

Case is of Stainless Steel, nicely formed and finished. Both sides have embossed design with black background, giving the "Aristocrat" the appearance its name implies. Diameter of case is but 1 5/8 inches and the article complete weighs only two ounces. Handsome individual box, transparent covered.

No.	Length	Markings, One Side Only	Each
186	72 inch.	Inches to 16ths, both edges. (First 6 inches upper edge to 32nds).....	\$1.50
186D	6 foot.	Feet, 10ths and 100ths of feet upper edge. Feet, inches and 16ths lower edge.....	1.75
186EM	72 inch. (2 metre).	Millimetres on upper edge. Inches to 16ths, lower edge.....	1.75

Weight Per Dozen, 2 lbs.

Packing: One in a box, three in a carton.

"CRESCENT JUNIOR" TAPE-RULES

REG. U. S. PAT. OFF.

Flexible-Rigid Blade — Automatic Wind.

A 6-foot Tape-Rule of same type as the popular "Crescent," but narrower and somewhat lighter weight.

Steel Blade, 7/16 inch wide, nickel plated. Dark, contrasting markings, easy to read. Blade can be projected unsupported, like a rule, and will also flex to measure circles, etc. Solid hook is ideal for measuring either within or beyond arms reach.

Blade is manually withdrawn from case, and automatically returned by pressing push button. Smooth-working, spring winding device with ratchet stop keeps the action under complete control. Substantial, nickel plated case, with rounded edges, diameter 2 inches. Article complete weighs 4 ounces.

No.	Length	Markings, One Side Only	Each
No. 1696	72 inch.	Marked one side, both edges, inches to 16ths.... (First 6 inches upper edge to 32nds.)	\$2.25

(We offer also Nos. 1696D and 1696EM, same lengths and marked same as 186D and 186EM above.....\$2.50 each)

Weight per doz., 3 1/2 lbs.

Packing: One in a box, six in a carton.



WIZARD AND WIZARD JR. TAPE-RULES

**Flexible-Rigid Blade—Manually Operated—Nickel Plated Case
Popular Priced—Accurate**

Blade is made of high quality tempered steel, stiffened by special forming. Unsupported it can be projected like a rule to walls, openings etc. Will also flex and accurately measure circles and odd shapes. Markings are easy to read, being prominent and dark, in sharp contrast to the background.

Blade is manually withdrawn and returned and has solid hook, handy for taking measurements either within or beyond arms reach. Accurate butt end measurements can be taken from the shoulders of the blade. Due to superior construction, the blade will remain set at any distance withdrawn and will not spring back into the case.

Sturdy nickel plated case fully encloses the blade. With blade extended, case will stand on edge so that blade lies flat on the work.

WIZARD TAPE-RULE—With $\frac{5}{8}$ inch Blade

Marked one side only, inches to 16ths both edges
(First 6 inches upper edge to 32nds)

No.		Diameter Case	Wt. per doz.	Price, each
686	72 inch	2 inches	$3\frac{1}{8}$ lbs.	\$1.00
688	96 inch	2-3/16 inches	$3\frac{3}{4}$ lbs.	1.50

WIZARD JR. TAPE-RULE—With $\frac{1}{2}$ inch Blade

Marked one side only, inches to 16ths both edges
(First 6 inches upper edge to 32nds)

No.		Diameter Case	Wt. per doz.	Price, each
1686	72 inch	$1\frac{7}{8}$ inches	$2\frac{1}{4}$ lbs.	\$0.75

Packing: Nos. 686 and 1686, One in a box, six in a carton.
No. 688, one in a box.

Section Four

BOXWOOD RULES

BOXWOOD Rules are the oldest type of folding wood rule now in common use. Ours are of genuine boxwood, thoroughly seasoned. The metal parts are of brass. Our rules are marked by improved methods, are well finished and carefully inspected.

There are three types of main joints: the round, as on popular priced rule No. 651; the sturdy square joint, also widely used; and the arch joint, a favorite with some mechanics. Boxwood Rules are made with edges plain, known as unbound; with outer edge only brass bound full length, known as half-bound; and with both edges brass bound, known as full-bound. Rules with middle plates have legs of hinge inserted in the wood; those with edge plates have legs of hinge flush with edge of the wood.

All of our Boxwood Rules have ends brass capped. All have closing pins, which hold the sections in alignment when closed. Widths specified are widths of the rules closed.

We stock and supply without extra charge Boxwood Rules in English pattern, that is, with figures running from left to right. Specify by prefixing "E" to stock number, as "E-651". The demand for such rules is practically limited to Great Britain and her possessions.

The following Boxwood Rules in English lengths, marked English and metric, are regular stock and take regular price:

465EM, 651EM, 751EM, 752EM, 771EM, 781EM,
881EM, 863L-EM, 873L-EM, 171EM, 372EM, 386EM,
388EM, 781C-EM.

We make the following rules in the 1 metre length,
4 fold, marked metric and English:

3851ME. 3852ME.

NOTE—Various miscellaneous rules made of boxwood are
listed in Section Six of this Catalog.

TWO FOOT BOXWOOD RULES

FOUR FOLD. UNBOUND.



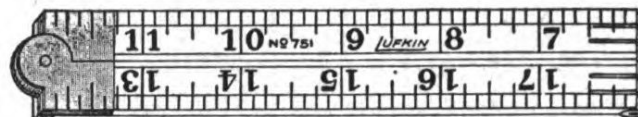
Number
651 (68)

Two Foot. 1 inch wide. Round Joint. Middle Plates.
Marked: 8ths and 16ths inch.
The Markings And Figures, Being Especially Distinct,
Are Most Easily Read. This Is The Popular Priced And
Most Widely Used Boxwood Rule.

Packing: 1 doz. in a box. Weight per doz., 1 1/4 lbs.

Per Doz.

\$3.00



751 (61)

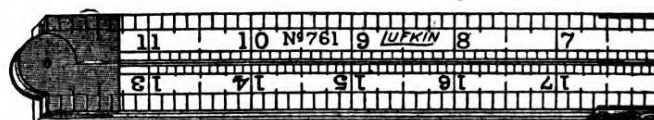
Two Foot. 1 inch wide. Square Joint. Middle Plates.
Marked: 8ths and 16ths inch.
This Rule Also Has The Extra Prominent Markings And
Figures, Most Legible. It Is The Largest Seller Among
Medium Priced Rules.

\$4.20

752 (70)

Two Foot. 1 3/8 inch wide. Square Joint. Middle Plates.
Marked: Drafting scales and 8ths and 16ths inch.
The Extra Width Gives This Rule Greater Strength.
Packing: 1/2 doz. in a box. Weights, per doz., 1 1/2 and 2 lbs.

\$6.00



760 (63 1/2)

Two Foot. 3/4 inch wide. Square Joint. Edge Plates.
Marked: 8ths, 10ths and 16ths inch.
A Well Designed Narrow Rule.

\$6.00

761 (63)

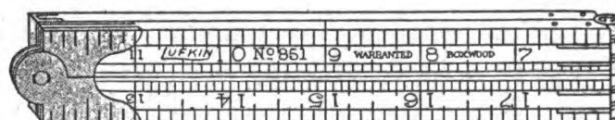
Two Foot. 1 inch wide. Square Joint. Edge Plates.
Marked: Drafting scales and 8ths, 10ths, 12ths and
16ths inch.
Affords A Wide Range of Markings And The Edge
Plates Make This A Superior Rule.

\$6.00

762 (72)

Two Foot. 1 3/8 inch wide. Square Joint. Edge Plates.
Marked: Drafting scales and 8ths, 10ths, 16ths inch.
Most Durable Of Our Unbound Two Foot Rules, Being
Extra Width And Having Edge Plates.
Packing: 1/2 doz. in a box. Weights per doz., 1, 1 1/2 and 2 lbs.

Discontinued



851 (51)

Two Foot. 1 inch wide. Arch Joint. Middle Plates.
Marked: Drafting scales and 8ths, 10ths, 12ths and
16ths inch.
A Wide Range Of Markings. The Strong Arch Joint
Also Adds To The Appearance.

\$5.40

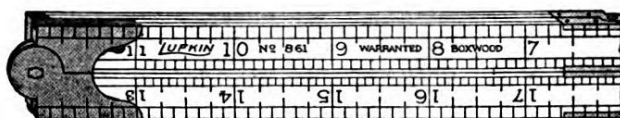
852 (73)

Two Foot. 1 3/8 inch wide. Arch Joint. Middle Plates.
Marked: Drafting scales and 8ths, 10ths, 16ths inch.
The Neat Appearing Arch Joint In A Rule Of Extra
Width.

Discontinued

Packing: 1/2 doz. in a box. Weights per doz., 1 1/2 and 2 lbs.

TWO FOOT BOXWOOD RULES



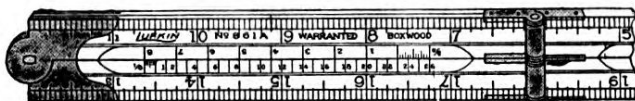
Number **FOUR FOLD. UNBOUND. Per Doz.**

861 (53) Two Foot. 1 inch wide. Arch Joint. Edge Plates.
Marked: Drafting scales and 8ths, 10ths, 12ths and 16ths inch.
Extra Strength Is Obtained By The Edge Plates, And The Substantial Arch Joint Also Adds To The Appearance.

\$7.20

862 (75) Two Foot. 1 3/8 inch wide. Arch Joint. Edge Plates.
Marked: Drafting scales and 8ths, 10ths and 16ths inch. Being Extra Wide And Having Edge Plates, This Is A Substantial Rule. **Discontinued**
Packing: 1/2 doz. in a box. Weights per doz., 1 1/2 and 2 lbs.

ARCHITECTS BOXWOOD RULE



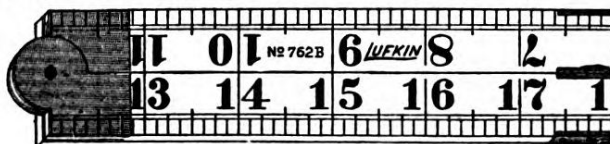
**WITH INSIDE EDGES BEVELED.
TWO FOOT. FOUR FOLD.**

861A (53 1/2) 1 inch wide. Arch Joint. Edge Plates.
Marked: 1/8, 1/4, 3/8, and 1/2 inch architect's scales, and with inches in 8ths, 10ths, 12ths and 16ths.
Designed For Work On Drawings And Plans. The Scales, Being On The Beveled Faces, Lay Close To The Work.
Packing: 1/2 doz. in a box. Weight per doz., 1 1/2 lbs.

\$12.00

BLINDMANS RULES

These Boxwood Rules have especially large and heavy face figures, and are therefore very easily read. They are well adapted to use in poorly lighted places, or by persons with poor eyesight. They are also sturdy, being 1 3/8 inch wide and having square joint.



TWO FOOT. FOUR FOLD.

762B (7) 1 3/8 inch wide. Square Joint. Edge Plates.
Marked: 8ths and 16ths inch.
The Standard Two Foot Blindman's Rule, Extra Legible.
Packing: 1/2 doz. in a box. Weight per doz., 2 lbs.

\$12.00

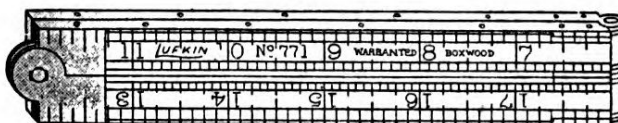


THREE FOOT. FOUR FOLD.

3752B 1 3/8 inch wide. Square Joint. Middle Plates.
Marked: 8ths and 16ths inch.
Combining Extra Length (3 ft.) And The Blindman's, Easy Reading, Feature, This Rule Is Popular.
Packing: 1/2 doz. in a box. Weight per doz., 3 lbs.

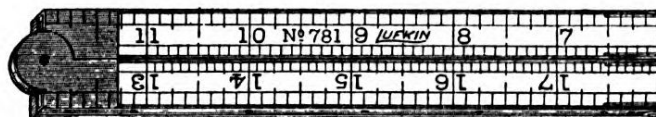
\$13.80

**TWO FOOT BOXWOOD RULES
FOUR FOLD. BRASS BOUND.**



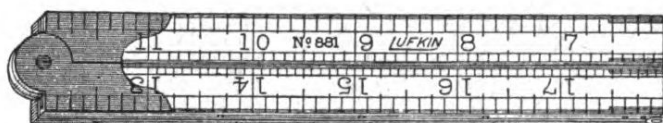
HALF BOUND. SQUARE JOINT.

- | Number | | Per Doz. |
|----------|--|----------|
| 771 (84) | Two Foot. 1 inch wide. Square Joint. Outer Edge Brass Bound. Marked: Drafting scales and 8ths, 10ths, 12ths and 16ths inch. Our Only Standard Pattern Half Bound Rule. Packing: 1/2 doz. in a box. Weight per doz., 2 lbs. | \$9.00 |



FULL BOUND. SQUARE JOINT.

- | | | |
|--------------|---|-----------|
| 780 (62 1/2) | Two Foot. 3/4 inch wide. Square Joint. Both Edges Brass Bound. Marked: 8ths, 10ths, 12ths and 16ths inch. Among Extra Narrow 2 Foot Rules, This Is The Most Durable. | \$11.40 |
| 781 (62) | Two Foot. 1 inch wide. Square Joint. Both Edges Brass Bound. Marked: Drafting scales and 8ths, 10ths, 12ths and 16ths inch. By Far The Most Popular Of Brass Bound Rules. A Durable And Practical Rule For Mechanics And For General Use. | \$11.40 |
| 782 (72 1/2) | Two Foot. 1 3/8 inch wide. Square Joint. Both Edges Brass Bound. Marked: Drafting scales and 8ths, 10ths and 16ths inch. Being Wide Pattern And Full Brass Bound, This Rule Is Extra Durable. Packing: 1/2 doz. in a box. Weights per doz., 2, 2 1/2 and 3 lbs. | Discont'd |



FULL BOUND. ARCH JOINT.

- | | | |
|----------|---|-----------|
| 881 (54) | Two Foot. 1 inch wide. Arch Joint. Both Edges Brass Bound. Marked: Drafting scales and 8ths, 10ths, 12ths and 16ths inch. The Neat Appearing Arch Joint In A Full Bound Rule Of Most Popular Width, And With Good Range of Markings. | \$12.60 |
| 882 (76) | Two Foot. 1 3/8 inch wide. Arch Joint. Both Edges Brass Bound. Marked: Drafting scales and 8ths, 10ths and 16ths inch. A Rule Of The Most Durable Type And With The Attractive Arch Joint. Packing: 1/2 doz. in a box. Weights per doz., 2 1/2 and 3 lbs. | Discont'd |

COMBINATION RULE, LEVEL AND PROTRACTOR

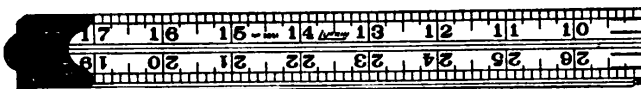


TWO FOOT. FOUR FOLD.

Sturdy Boxwood Rules with Spirit Level and Protractor. Very handy for carpenters and other mechanics, and for general use. Not only practical rules, but with them angles of any degree are readily measured or laid out, by the aid of the protractor plate. They also carry a convenient level, which, when rule is closed, is well protected.

- | Number | | Per Doz. |
|--------|---|----------|
| 863L | Two Foot. 1 1/2 inch wide. Arch Joint. Edge Plates. Marked: Drafting scales and 8ths and 16ths inch. | \$24.00 |
| 873L | Two Foot. 1 1/2 inch wide. Arch Joint. Outer Edge Brass Bound. Marked: Drafting scales and 8ths and 16ths inch. Packing: 1 rule in a box. Weights each, 4 and 5 oz. | \$30.00 |

THREE FOOT BOXWOOD RULES



FOUR FOLD. UNBOUND.

Per Doz.

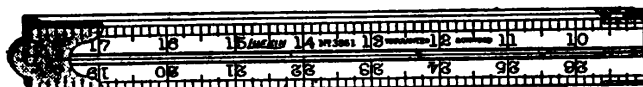
3851 (66½) Three Foot. 1 inch wide. Arch Joint. Middle Plates.

Marked: 8ths and 16ths inch.

\$9.00

Rules Of This Length Are Steadily Becoming More Popular.

Packing: ½ doz. in a box. Weight per doz., 2 lbs.



FOUR FOLD. UNBOUND.

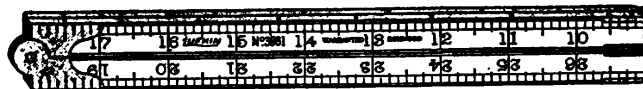
3861 (66¼) Three Foot. 1 inch wide. Arch Joint. Edge Plates.

Marked: 8ths and 16ths inch.

\$10.80

A Good Rule, Having Edge Plates And Arch Joint.

Packing: ½ doz. in a box. Weight per doz., 2 lbs.



FOUR FOLD FULL BOUND.

3881 (66¾) Three Foot. 1 inch wide. Arch Joint. Both Edges Brass Bound.

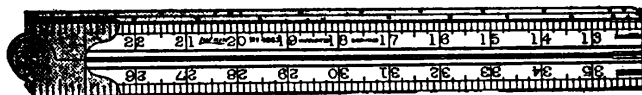
Marked: 8ths and 16ths inch.

\$22.20

The Best Three Foot Rule.

Packing: ½ doz. in a box. Weight per doz., 3¼ lbs.

FOUR FOOT BOXWOOD RULE



FOUR FOLD. FULL BOUND.

4883 (94) Four Foot. 1½ inch wide. Arch Joint. Both Edges Brass Bound.

Marked: 8ths and 16ths inch.

\$40.20

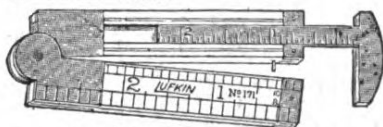
The Longest Of Our Folding Boxwood Rules. Staunchly Built, Of Good Width, And, Being Full Bound, Stands Up Well. Opening In 1 ft. Sections, This Is An Especially Practical Rule With Which To Take The Longer Measurements.

Packing: ½ doz. in a box. Weight per doz., 5½ lbs.

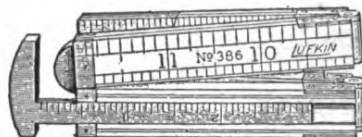
THE
LUFKIN
RULE
CO.

BOXWOOD CALIPER RULES

Universally used in measuring pipe and fittings, rods and bars, bolts, nuts, and in other rough calipering work. Suitable as well for all measuring, the rule itself also being graduated. One leg of these rules carries a brass caliper slide, which is marked on outside face to 32nds, inside face to 16ths inch.

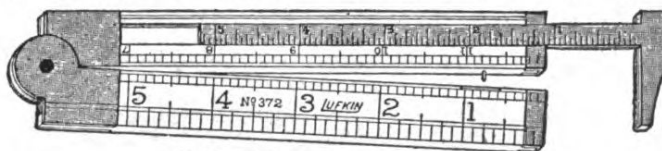


SIX INCH. TWO FOLD.



ONE FOOT. FOUR FOLD.

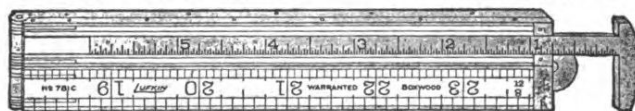
- | Number | | Per Doz. |
|-----------|--|----------|
| 171 (36) | Six Inch. Two Fold. 1 inch wide. Square Joint. Unbound.
Marked: Rule..... 8ths, 10ths, 12ths and 16ths inch;
Caliper..... 16ths and 32nds inch.
A Compact, Light Weight Pocket Rule and Caliper. | \$7.20 |
| 172 (13½) | Six Inch. Two Fold. 1 ¾ inch wide. Square Joint.
With brass bit plate, protecting wood from closing pin.
Marked: Rule..... 8ths and 16ths inch;
Caliper..... 16ths and 32nds inch.
A Short, Sturdy Rule And Caliper.
Packing: ½ doz. in a box. Weight per doz., 1 lb. | \$10.20 |
| 386 (32) | One Foot. Four Fold. 1 inch wide. Arch Joint. Edge Plates.
Marked: Rule..... 8ths, 10ths, 12ths and 16ths inch;
Caliper..... 16ths and 32nds inch.
A Convenient Small Pocket Size, Yet Opens To One Foot. | \$10.80 |
| 388 (32½) | One Foot. Four Fold. 1 inch wide. Arch Joint. Full Bound.
Marked: Rule..... 8ths, 10ths, 12ths and 16ths inch;
Caliper..... 16ths and 32nds inch.
A Durable Rule. One Foot Long, Yet Folds to 3 Inches.
Packing: ½ doz. in a box. Weights per doz., 1½ and 1¾ lbs. | \$16.20 |



ONE FOOT. TWO FOLD.

- 372 (36½) 1 ¾ inch wide. Square Joint.
With brass bit plate, protecting wood from closing pin.
Marked: Rule..... 8ths, 10ths, 12ths and 16ths inch;
Caliper..... 16ths and 32nds inch.
Popular Because Of Length of Caliper, And Being a Sturdy Rule.
Packing: ½ doz. in a box. Weight per doz., 1¾ lbs.

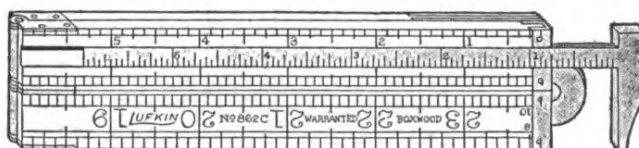
\$10.20



TWO FOOT. FOUR FOLD. FULL BOUND.

- 781C (62C) 1 inch wide. Square Joint. Both Edges Brass Bound.
Marked: Rule..... 8ths, 10ths, 12ths and 16ths inch;
Caliper..... 16ths and 32nds inch.
Very Practical And Popular Both As Rule and Caliper. A 6 Inch Caliper In A Durable, Standard Size, 2 Foot Rule.
Packing: ½ doz. in a box. Weight per doz., 2¾ lbs.

\$21.00



TWO FOOT. FOUR FOLD.

- 862C (83C) 1 ¾ inch wide. Arch Joint. Edge Plates.
Marked: Rule..... 8ths, 10ths and 16ths inch;
Caliper..... 16ths and 32nds inch.
Combines The 6 Inch Caliper Slide And A Substantial Rule, Having Edge Plates And Arch Joint.
Packing: ½ doz. in a box. Weight per doz., 2¾ lbs.

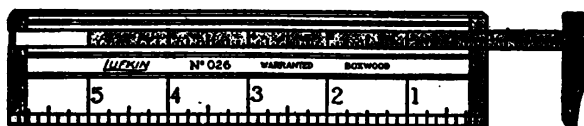
\$19.20

BOXWOOD CALIPER GAGES

FOUR INCH. SIX INCH.

This line of one-piece (not folding) Caliper Gages was developed by The Lufkin Rule Co. and is proving very popular. While the wood part, as well as the caliper slide, is graduated, these are primarily for ordinary calipering work, about mills, shops, stores, etc. They will quickly measure diameter of pipe and fittings, bolts and nuts, bars, rods, etc., and, being compact, are conveniently carried in the pocket everywhere.

Markings: On all these gages the caliper slide is marked 32nds on outside, 16ths inch on inside face; the rule, or wood part, is in 8ths and 16ths.

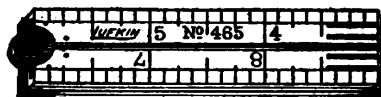


Number					Per Doz.
014	Four Inch.	1 in. wide.	Unbound.	Weight per doz., $\frac{3}{4}$ lb.	\$6.00
016	Six Inch.	1 in. wide.	Unbound.	Weight per doz., 1 lb.	7.20
024	Four Inch.	1 $\frac{1}{2}$ in. wide.	Unbound.	Weight per doz., 1 lb.	6.60
026	Six Inch.	1 $\frac{1}{2}$ in. wide.	Unbound.	Weight per doz., 1 $\frac{1}{4}$ lb.	7.80

Packing: $\frac{1}{2}$ doz. in a box.

NOTE—Button Gage... 024 can, at small extra charge, be supplied with caliper marked 40ths of an inch, as used in measuring buttons. Known as rule No. 024B.

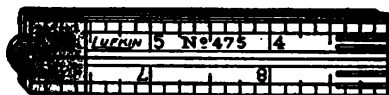
ONE FOOT BOXWOOD RULES



FOUR FOLD. UNBOUND.

- 465 (69)** One Foot. $\frac{5}{8}$ inch wide. Round Joint. Middle Plates. Discontinued
Marked: 8ths and 16ths inch.
 A Very Small, Low Priced Rule, Designed For Light Work.

Packing: 1 doz. in a box. Weight per doz., $\frac{1}{2}$ lb.



FOUR FOLD. UNBOUND.

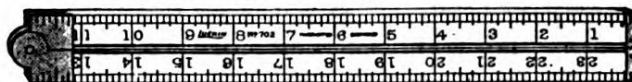
- 475 (65)** One Foot. $\frac{5}{8}$ inch wide. Square Joint. Middle Plates. Discontinued
Marked: 8ths and 16ths inch.
 Our Very Small Pocket Rule With Square Joint.
 Packing: $\frac{1}{2}$ doz. in a box. Weight per doz., $\frac{1}{2}$ lb.



FOUR FOLD. FULL BOUND.

- 478 (65 $\frac{1}{2}$)** One Foot. $\frac{5}{8}$ inch wide. Square Joint. Both Edges Brass Bound. Discontinued
Marked: 8ths and 16ths inch.
 Most Substantial Of Our Very Small One Foot Rules.
 A Convenient Vest Pocket Size.
 Packing: $\frac{1}{2}$ doz. in a box. Weight per doz., 1 lb.

TWO FOOT BOXWOOD RULE THE MANUAL TRAINING RULE



TWO FOLD. UNBOUND.

Number

703 (18) Two Foot. 1½ inch wide. Square Joint.

Per Doz.

Marked: 8ths and 16ths inch.

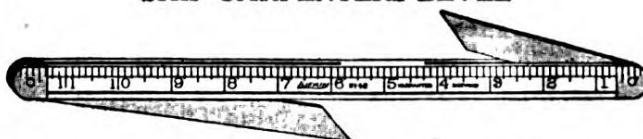
\$6.00

**This Is The Medium Priced Rule In 12-Inch Sections,
A Type That Is Widely Used In Manual Training And
Vocational School Work.**

Packing: ½ doz. in a box. Weight per doz., 2 lbs.

**NOTE—For 1 foot, one-piece Manual Training Rules in maple and boxwood,
see page 138.**

SHIP CARPENTERS BEVEL



42

One Foot. Boxwood Rule. ¾ inch wide. With 2 brass tongues.

The tongues or bevels fold into the rule.

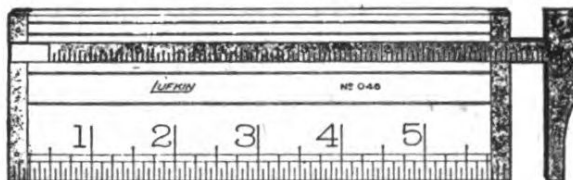
Rule marked. 8ths and 16ths inch.

\$7.80

Well Adapted To Work Such As That Of Ship Carpenters.

Packing: 1 doz. in a box. Weight per doz., 2 lbs.

SPOKE CALIPER RULE



**A Boxwood Rule with brass caliper slide. Designed and
especially suitable for calipering diameter of wood spokes
for automobile and other wheels. Being a wide and sub-
stantial 6-inch Caliper Rule, this article will prove handy
in other fields.**

046

Six Inch. 2 inches wide. Not folding.

Marked: Rule and Caliper in 16ths inch.

\$24.00

Packing: ½ doz. in a box. Weight per doz., 2 lbs.

HOOK STAVE RULE



**Designed to meet the needs of barrel manufacturers in
measuring staves. A substantial 6 inch one-piece Box-
wood Rule, fitted at one end with strong brass hook,
other end brass capped.**

047

Six Inch. ¾ inch wide.

**Marked: Lower edge of both sides, inches to 16ths,
measuring from inside of hook.**

\$12.00

Packing: ½ doz. in a box. Weight per doz., 1 lb.

Section Five

SPRING JOINT RULES

SPRING Joint Wood Rules are the type of rule most widely used in common measuring. Ours are made of flexible, tough hardwood sections, nicely enameled and securely assembled, with firm, yet smooth-working spring joints.

We offer not only a complete line, but also exclusive features and items. Among these are the following:

The Folding End Hook Attachment, just the thing for taking measurements out of arm's reach, and handy in all places.

Boxwood Extension Rules, ideal for taking inside as well as other measurements. The sections are somewhat heavier than those of common folding rules and are of genuine boxwood, making an article of the highest grade.

In Concealed Joint Rules the rivet is not visible: in the Rivet Joint Rules it passes entirely through the wood. The price of both is the same, and they sell in about equal quantities. All our Spring Joint Wood Rules have ends metal capped

ALUMINUM Folding Rules are also listed in this section of catalog. For these rust-proof metal rules there is large demand. Like all aluminum rules, ours are light weight, but the material we use is a composition made especially for our purpose, producing a durable rule that holds its shape well.

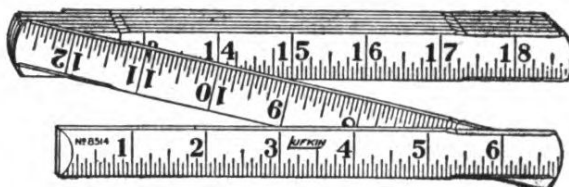
Aluminum Rules With Folding Hook. This is an entirely new thing in rules of this kind. It is the feature that has proven so popular in connection with our Spring Joint Wood Rules. It is an exclusive Lufkin improvement and will stimulate the sale of Aluminum Rules as it has that of the others.

NOTE—Spring Joint Board and Log Rules, No. 523 and No. 524, are listed in Section Seven of this Catalog.

SPRING JOINT RULES

Flexible. Six-Inch Folds. $\frac{5}{8}$ Inch Wide.
Brass Plated Trimmings.

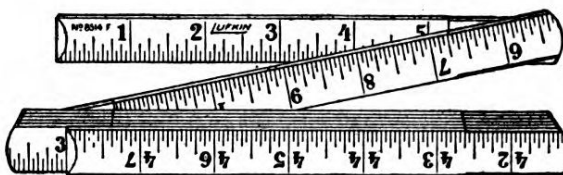
CONCEALED JOINTS



Marked Consecutive Inches to 16ths, Both Sides.

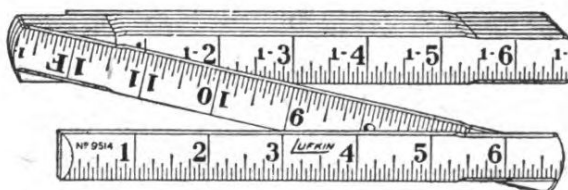
Yellow Enameled				White Enameled			
No.		Wt. Doz.	Per Doz.	No.		Wt. Doz.	Per Doz.
8512	2 ft.	Discontinued		8612	2 ft.	Discontinued	
8513	3 ft.	Discontinued		8613	3 ft.	Discontinued	
8514	4 ft.	2 lbs.	\$4.80	8614	4 ft.	2 lbs.	\$5.40
8515	5 ft.	2 $\frac{1}{2}$ lbs.	6.00	8615	5 ft.	2 $\frac{1}{2}$ lbs.	6.60
8516	6 ft.	3 lbs.	7.20	8616	6 ft.	3 lbs.	7.80
8518	8 ft.	Discontinued		8618	8 ft.	Discontinued	

NOTE—For Above Rules With Folding End Hook, See Page 131.



With Inside Marking (numbering commences on inside face of rule) Marked Consecutive Inches to 16ths, Both Sides.

Yellow Enameled				White Enameled			
No.				No.			
8513F	3 ft.	Discontinued		8613F	3 ft.	Discontinued	
8514F	4 ft.	Discontinued		8614F	4 ft.	Discontinued	
8515F	5 ft.	Discontinued		8615F	5 ft.	Discontinued	
8516F	6 ft.	Discontinued		8616F	6 ft.	Discontinued	
8518F	8 ft.	Discontinued		8618F	8 ft.	Discontinued	



Marked Feet, Inches and 16ths, Both Sides.

With Instantaneous Readings (foot numbers in red and repeated each inch)

Yellow Enameled				White Enameled			
No.				No.			
9513	3 ft.	Discontinued		9613	3 ft.	Discontinued	
9514	4 ft.	Discontinued		9614	4 ft.	Discontinued	
9515	5 ft.	Discontinued		9615	5 ft.	Discontinued	
9516	6 ft.	Discontinued		9616	6 ft.	Discontinued	
9518	8 ft.	Discontinued		9618	8 ft.	Discontinued	

SPRING JOINT RULES

Flexible. Six-Inch Folds. $\frac{5}{8}$ Inch Wide.

Brass Plated Trimmings

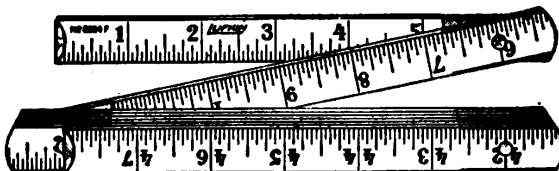
RIVET JOINTS



Marked Consecutive Inches to 16ths, Both Sides

Yellow Enameled				White Enameled			
No.		Wt. Doz.	Per Doz.	No.		Wt. Doz.	Per Doz.
8522	2 ft.	1 lbs.	\$2.40	8622	2 ft.	1 lbs.	\$3.00
8523	3 ft.	1 ½ lbs.	3.60	8623	3 ft.	1 ½ lbs.	4.20
8524	4 ft.	2 lbs.	4.80	8624	4 ft.	2 lbs.	5.40
8525	5 ft.	2 ½ lbs.	6.00	8625	5 ft.	2 ½ lbs.	6.60
8526	6 ft.	3 lbs.	7.20	8626	6 ft.	3 lbs.	7.80
8528	8 ft.	4 lbs.	9.60	8628	8 ft.	4 lbs.	10.20

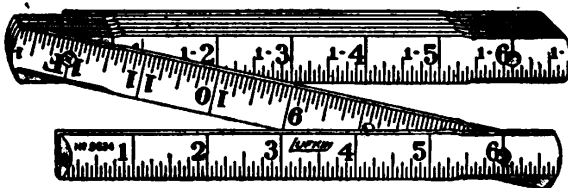
NOTE—For Above Rules With Folding End Hook, See Page 131.



With Inside Marking (numbering commences on inside face of rule)

Marked Consecutive Inches to 16ths, Both Sides

Yellow Enameled				White Enameled			
No.		Wt. Doz.	Per Doz.	No.		Wt. Doz.	Per Doz.
8523F	3 ft.....	Discontinued		8623F	3 ft.....	Discontinued	
8524F	4 ft.	2 lbs.	\$4.80	8624F	4 ft.	2 lbs.	\$5.40
8525F	5 ft.	2 ½ lbs.	6.00	8625F	5 ft.	2 ½ lbs.	6.60
8526F	6 ft.	3 lbs.	7.20	8626F	6 ft.	3 lbs.	7.80
8528F	8 ft.....	Discontinued		8628F	8 ft.....	Discontinued	



Marked Feet, Inches and 16ths, Both Sides

With Instantaneous Reading (foot numbers in red and repeated each inch).

Yellow Enameled				White Enameled			
No.		Wt. Doz.	Per Doz.	No.		Wt. Doz.	Per Doz.
9523	3 ft.....	Discontinued		9623	3 ft.....	Discontinued	
9524	4 ft.....	Discontinued		9624	4 ft.....	Discontinued	
9525	5 ft.....	Discontinued		9625	5 ft.....	Discontinued	
9526	6 ft.	3 lbs.	\$7.20	9626	6 ft.	3 lbs.	\$ 7.80
9528	8 ft.	4 lbs.	9.60	9628	8 ft.	4 lbs.	10.20

Packing: 2 and 3 ft. rules....1 doz. in a box;
all other lengths....½ doz. in a box.

THE
LUFKIN
RULE
CO.

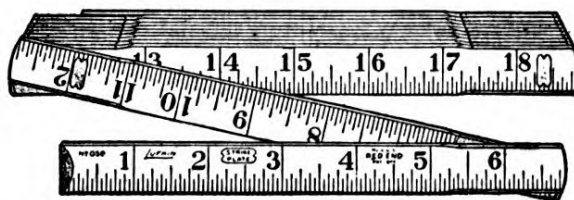
"RED END" SPRING JOINT RULES

With Strike Plates

Flexible Six-inch Folds $\frac{5}{8}$ inch wide

Trimmings of Solid Brass

Concealed Joints



"RED END" Spring Joint Rules are the finest wood rules on the market. Joints and Strike Plates are of solid brass. Strike Plates are small brass plates fastened to the flat surfaces of each rule section which prevent the wearing away of the lines and figures when opening and closing the rule.

The Cream Enamel is a finish found on no other rule and is a marked improvement over the common yellow finish. The White Enamel is as near "Snow White" as it is possible to obtain and both colors have a beautiful gloss finish which will not crack, chip or blister. All ends are gloss red which give the rules a "dressed up" appearance and quickly distinguish them from the common grades of folding wood rules.

Marked Consecutive Inches to 16ths, Both Sides

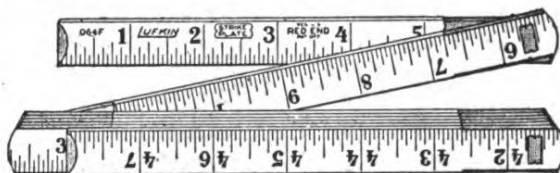
Cream Enameled

White Enameled

No.		Wt.	Doz.	Per Doz.
053	3 ft.	1½ lbs.		\$ 4.80
054	4 ft.	2 lbs.		6.00
055	5 ft.	2½ lbs.		7.20
056	6 ft.	3 lbs.		8.40
058	8 ft.	4 lbs.		10.80

No.		Wt.	Doz.	Per Doz.
063	3 ft.	1½ lbs.		\$ 5.40
064	4 ft.	2 lbs.		6.60
065	5 ft.	2½ lbs.		7.80
066	6 ft.	3 lbs.		9.00
068	8 ft.	4 lbs.		11.40

NOTE:—For Above Rules With Folding End Hook, See Page 131.



WITH INSIDE MARKING

(Numbering commences on inside face of rule)

Marked Consecutive Inches to 16ths, Both Sides

White Enameled Only

No.		Wt.	Doz.	Per Doz.
064F	4 ft.	2 lbs.		\$ 6.60
065F	5 ft.	2½ lbs.		7.80
066F	6 ft.	3 lbs.		9.00
068F	8 ft.	4 lbs.		11.40

MARKED ONE SIDE IN FEET, 10ths AND 100ths OF FEET.

OTHER SIDE IN FEET, INCHES AND 16ths.

Instantaneous Readings (Foot numbers in red and repeated each 10th)

Cream Enameled

White Enameled

No.		Wt.	Doz.	Per Doz.
056D	6 ft.	3 lbs.		\$8.40

No.		Wt.	Doz.	Per Doz.
066D	6 ft.	3 lbs.		\$9.00

Packing:—3 ft. rules, 1 doz. in box; All other lengths $\frac{1}{2}$ doz. in box.

A NEW **LUFKIN** RULE

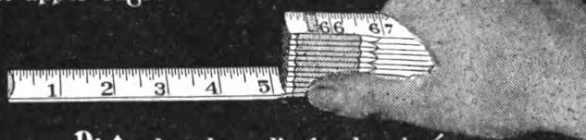
"TWO WAY-RED END"

SPRING JOINTS - STRIKE PLATES

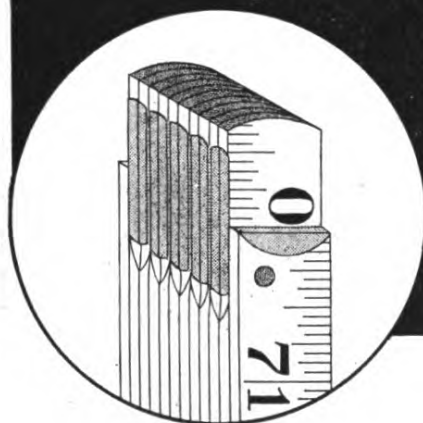


Left hand reading - showing measurement reading from right to left - graduations on upper edge.

An
Ideal Rule
for All
Mechanics



Right hand reading - showing measurement reading from left to right - graduations on upper edge.



Indicating mark placed to distinguish one measurement from the other before opening rule.

UNLIKE ANY OTHER RULE

The "Two Way" is adapted to measuring left to right or right to left. With it, when measuring distances longer than the rule, the balance of the space, completing the measurement, is found by simply turning over the rule, and still all figures are right side up.

Also, it offers both right and left hand reading; right hand (the natural direction for much common measuring), left hand (most convenient with rule in left hand, pencil or saw in right). This two way feature is also fine for measuring right and left out of any corner.

Also, it has 16ths upper edge, so naturally falling closest to edge of work being measured or marked.

LIKE ALL "RED END" RULES, the "Two Way" has rust-proof metal trimmings, strike plates preventing wear, superior white enamel finish, and bright red ends. (Also has on both sides inside or flat markings).

Marked Consecutive Inches to 16ths, Both Sides.

White Enameled — Six-Inch Folds — $\frac{5}{8}$ Inch Wide.

No.	Length	Wt. doz.	Per doz.
964	4 foot	Discontinued	
965	5 foot	Discontinued	
966	6 foot	3 lbs.	\$9.00

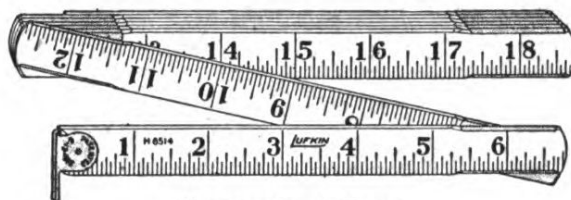
Packing. $\frac{1}{2}$ doz. in a box.

130-A

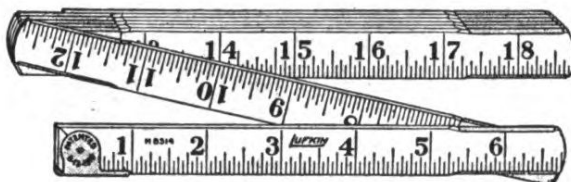
SPRING JOINT RULES WITH FOLDING HOOK

(Patented June 13, 1916)

Flexible. Six-Inch Folds. $\frac{5}{8}$ Inch Wide.



Showing Hook Open



Showing Hook Closed

AN EXCLUSIVE LUFKIN FEATURE MEETING AN EVERYDAY NEED.

Just the thing for taking measurements out of arm's reach, and handy in all measuring. A small, substantial steel hook fitted to one end of Spring Joint Rules, so attached that with but a twist of the finger it will fold up and remain flush with the edge of the rule, making it for use same as ordinary rules without hook. Zero point falls at inside of hook when open, at extreme end of rule, same as regular rules, when hook is closed.

Concealed Joints. Brass Plated Trimmings.

Marked Consecutive Inches to 16ths, Both Sides.

Yellow Enameled		White Enameled	
No.		No.	
H8514	4 ft. Discontinued.	H8614	4 ft. Discontinued
H8515	5 ft. Discontinued	H8615	5 ft. Discontinued
H8516	6 ft. Discontinued	H8616	6 ft. Discontinued
H8518	8 ft. Discontinued	H8618	8 ft. Discontinued

Rivet Joints. Brass Plated Trimmings.

Marked Consecutive Inches to 16ths, Both Sides.

Yellow Enameled				White Enameled			
No.		Wt.	Doz. Per Doz.	No.		Wt.	Doz. Per Doz.
H8524	4 ft.	2 lbs.	\$5.40	H8624	4 ft.	2 lbs.	\$6.00
H8525	5 ft.	2½ lbs.	6.60	H8625	5 ft.	2½ lbs.	7.20
H8526	6 ft.	3 lbs.	7.80	H8626	6 ft.	3 lbs.	8.40
H8528	8 ft.	4 lbs.	10.20	H8628	8 ft.	4 lbs.	10.80

"RED END" RULES

With Strike Plates. Solid Brass Trimmings. Concealed Joints.

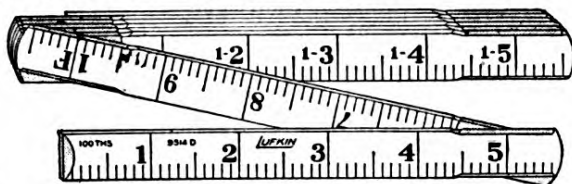
Marked Consecutive Inches to 16ths, Both Sides.

Cream Enameled				White Enameled			
No.		Wt.	Doz. Per Doz.	No.		Wt.	Doz. Per Doz.
H054	4 ft.	Discontinued		H064	4 ft.	Discontinued	
H055	5 ft.	Discontinued		H065	5 ft.	Discontinued	
H056	6 ft.	3 lbs.	\$9.00	H066	6 ft.	3 lbs.	\$9.60
H058	8 ft.	Discontinued		H068	8 ft.	Discontinued	

Packing: $\frac{1}{2}$ doz. in a box.

SPRING JOINT RULES

Flexible. Six-Inch Folds. $\frac{5}{8}$ Inch Wide. Brass Plated Trimmings.



Marked Feet, 10ths and 100ths of feet, one side;
Feet, Inches and 16ths other side.

Instantaneous Readings (foot numbers in red and repeated
at each 10th and each inch).

CONCEALED JOINTS

Yellow Enameled			White Enameled		
No.			No.		
9514D	4 ft.	Discontinued	9614D	4 ft.	Discontinued
9515D	5 ft.	Discontinued	9615D	5 ft.	Discontinued
9516D	6 ft.	Discontinued	9616D	6 ft.	Discontinued

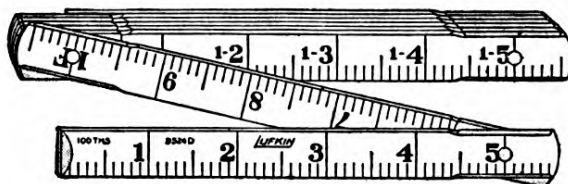
Marked Feet, 10ths and 100ths of Feet Both Sides
(Otherwise same as No. 9616D)

Instantaneous Readings (foot numbers in red and repeated at each 10th).

CONCEALED JOINTS

White Enameled Only

No.		Wt. per doz.	Per Doz.
9616DD	6 ft.	3 lbs.	\$7.80



Marked Feet, 10ths and 100ths of feet, one side;
Feet, Inches and 16ths other side.

Instantaneous Readings (foot numbers in red and repeated
at each 10th and each inch).

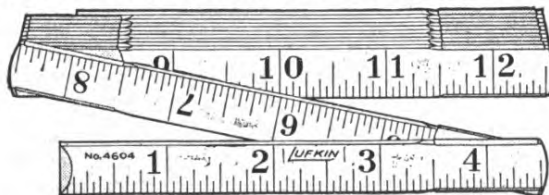
RIVET JOINTS

Yellow Enameled				White Enameled			
No.		Wt. Doz.	Per Doz.	No.		Wt. Doz.	Per Doz.
9524D	4 ft.	2 lbs.	\$4.80	9624D	4 ft.	2 lbs.	\$5.40
9525D	5 ft.	2 1/2 lbs.	6.00	9625D	5 ft.	2 1/2 lbs.	6.60
9526D	6 ft.	3 lbs.	7.20	9626D	6 ft.	3 lbs.	7.80

Packing: $\frac{1}{2}$ doz. in a box.

NARROW SPRING JOINT RULES

Flexible. Four-Inch Folds. $\frac{7}{16}$ Inch Wide. Brass Plated Trimmings



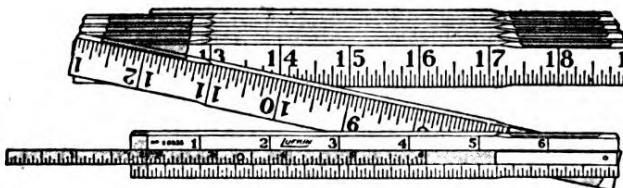
CONCEALED JOINTS

Marked Consecutive Inches to 16ths, Both Sides

Yellow Enameled				White Enameled			
No.		Wt. Doz.	Per Doz.	No.		Wt. Doz.	Per Doz.
4503	3 ft.	1 1/4 lbs.	\$5.40	4603	3 ft.	1 1/4 lbs.	\$5.80
4504	4 ft.	1 1/2 lbs.	7.20	4604	4 ft.	1 1/2 lbs.	7.70

Packing: $\frac{1}{2}$ doz. in a box.

BOXWOOD EXTENSION RULES



Particularly designed for taking inside measurements of openings such as door and window frames, for boilers, and other such measurements as are difficult to take with the ordinary folding rule. This rule, however, also perfectly serves every purpose of a common rule in ordinary measuring, and is extra durable. It will appeal especially to carpenters, architects, contractors, inspectors, automobile workers and others.

A six-inch graduated brass slide is fitted into the first section of the rule. This slide runs in a T slot, and, having stop at each end, cannot fall out.

The rule is made of genuine boxwood, with secure, smooth-working spring joints of the rivet type. The sections being of extra weight, the rule is somewhat more rigid than ordinary folding rules. The markings are especially distinct and the article is well finished in the natural boxwood.

To take an inside measurement, open rule to within 6 inches or less of the distance. Extend the brass slide by push button to point of measurement. Then add measurement on brass slide to that shown at extreme end of rule. This extension slide is well adapted also to measuring depth of mortises and other holes.

**Rule Marked Consecutive Inches to 16ths, Both Sides.
Brass Slide Marked Inches to 16ths.**

No.		Wt. per doz.	Per doz.
X8536	6 ft. (12 fold)	4 1/4 lbs.	\$16.00

Packing: 1/2 doz. in attractive display carton

WITH FOLDING HOOK

No.		Wt. per doz.	Per doz.
HX8536	6 ft. (12 fold)	4 1/4 lbs.	\$17.20

Packing: 1/2 doz. in a box.

MAPLE EXTENSION RULES

Lock Joints

Strike Plates

THE
LUFKIN
RULE
CO.



Particularly designed for taking measurements of openings such as door and window frames, for boilers and other such measurements as are difficult to take with the ordinary folding rule. This rule, however, also perfectly serves every purpose of a common rule in ordinary measuring, and is extra durable. It will appeal especially to carpenters, architects, contractors, inspectors, automobile workers and others.

A six-inch graduated brass slide is fitted into the first section of the rule. This slide runs in a T slot, and, having stop at each end cannot fall out.

The rule is made of hard maple and has lock joints and strike plates. Strike Plates are small brass plates fastened to the flat surfaces of each rule section which prevent the wearing away of the lines and figures when opening and closing the rule. The sections being of extra weight, the rule is somewhat more rigid than ordinary folding rules. The markings are especially distinct.

To take an inside measurement, open rule to within 6 inches or less of the distance. Extend the brass slide by push button to point of measurement. Then add measurement on brass slide to that shown at extreme end of rule. This extension slide is well adapted also to measuring depth of mortises and other holes.

Rule Marked Consecutive Inches to 16ths, Both Sides.
Brass Slide Marked Inches to 16ths.

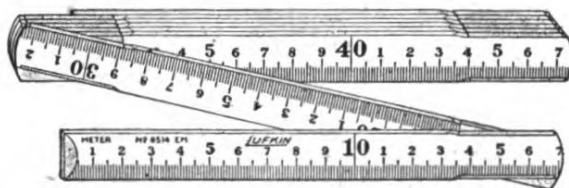
No.		Wt. per doz.	Per doz.
X46	6 ft. (12 fold)	4 lbs.	\$12.00
Packing: ½ doz. in attractive display carton.			

133A

METRIC SPRING JOINT RULES

Flexible. $\frac{5}{8}$ Inch (16 mm) Wide. Brass Plated Trimmings.

CONCEALED JOINTS



In ordering metric rules always specify number of folds, in addition to stock number, as "7511ME—5 fold," etc.

YELLOW ENAMELED

WHITE ENAMELED

Marked Metric And English

Inches to 16ths one side; millimetres other side.

Number		Wt. Per Doz. Lbs.	Per Doz.	Number		Wt. Per Doz. Lbs.	Per Doz.
8512EM	2 ft. (4 Fold)	1	\$2.40	8612EM	2 ft. (4 Fold)	Discont'd	
8513EM	3 ft. (6 Fold)	1½	3.60	8613EM	3 ft. (6 Fold)	Discont'd	
8514EM	4 ft. (8 Fold)	2	4.80	8614EM	4 ft. (8 Fold)	Discont'd	
8515EM	5 ft. (10 Fold)	2½	6.00	8615EM	5 ft. (10 Fold)	Discont'd	
8516EM	6 ft. (12 Fold)	3	7.20	8616EM	6 ft. (12 Fold)	Discont'd	
7511ME	5 Fold, 1 metre	1¾	3.60	7611ME	5 Fold, 1 metre	Discont'd	
7511ME	6 Fold, 1 metre	1¾	4.20	7611ME	6 Fold, 1 metre	1¾	\$4.80
7511ME	8 Fold, 1 metre	Discont'd		7611ME	8 Fold, 1 metre	Discont'd	
7511ME	10 Fold, 1 metre	1¾	5.40	7611ME	10 Fold, 1 metre	1¾	6.00
7512ME	10 Fold, 2 metres	3¼	6.60	7612ME	10 Fold, 2 metres	Discont'd	
7512ME	12 Fold, 2 metres	3¼	7.20	7612ME	12 Fold, 2 metres	3¼	7.80

Marked Metric Only.

Millimetres Both Sides

Number		Wt. Per Doz. Lbs.	Per Doz.	Number		Wt. Per Doz. Lbs.	Per Doz.
7511MM	5 Fold, 1 metre	1¾	\$3.60	7611MM	5 Fold, 1 metre	Discont'd	
7511MM	6 Fold, 1 metre	1¾	4.20	7611MM	6 Fold, 1 metre	Discont'd	
7511MM	8 Fold, 1 metre	Discont'd		7611MM	8 Fold, 1 metre	Discont'd	
7511MM	10 Fold, 1 metre	1¾	5.40	7611MM	10 Fold, 1 metre	Discont'd	
7512MM	10 Fold, 2 metres	3¼	6.60	7612MM	10 Fold, 2 metres	Discont'd	
7512MM	12 Fold, 2 metres	3¼	7.20	7612MM	12 Fold, 2 metres	Discont'd	

Marked Metric, English And Burgos (Spanish).

Metric and Burgos one side; inches to 16ths other side.

Number		Wt. Per Doz. Lbs.	Per Doz.	Number		Wt. Per Doz. Lbs.	Per Doz.
7511MEB	6 Fold, 1 metre	1¾	\$4.80	7611MEB	6 Fold, 1 metre	Discont'd	
7511MEB	10 Fold, 1 metre	1¾	6.00	7611MEB	10 Fold, 1 metre	Discont'd	
7512MEB	10 Fold, 2 metres	3¼	7.20	7612MEB	10 Fold, 2 metres	Discont'd	
8514EMB	8 Fold, 4 foot	2	5.40	8614EMB	8 Fold, 4 foot	Discont'd	

Packing: 2 ft., 3 ft., and 1 metre rules, 1 doz. in a box;
all other lengths, ½ doz. in a box.

NOTE—Metric rules can be furnished with the folding end hook, as described on page 131. Specify as "H 7511ME 10 Fold," etc.

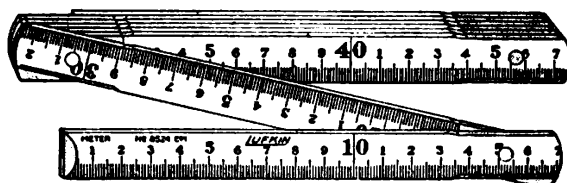
We regularly stock rules marked English upper edge, metric lower edge of both sides. Specify as "7511MEME," etc. Price same as MEB rules.

We can supply rules marked Metric and Norsk (Norwegian) measurement; also Metric, English and Norsk.

We can supply rules marked Vershok and Sagene (Russian) measurements; such rules also carrying English and metric marking.

METRIC SPRING JOINT RULES

Flexible. $\frac{5}{8}$ Inch (16 mm) Wide. Brass Plated Trimmings.
RIVET JOINTS



In ordering metric rules always specify number of folds, in addition to stock number, as "7521ME—5 fold," etc.

YELLOW ENAMELED

WHITE ENAMELED

Marked Metric and English

Inches to 16ths one side; millimetres other side.

Number		Wt. per Doz. lbs.	Per Doz.	Number		Wt. per Doz. lbs.	Per Doz.
8522EM	2 ft. (4 Fold)	1	\$2.40	8622EM	2 ft. (4 Fold)	...	Discont'd
8523EM	3 ft. (6 Fold)	1½	3.60	8623EM	3 ft. (6 Fold)	...	Discont'd
8524EM	4 ft. (8 Fold)	2	4.80	8624EM	4 ft. (8 Fold)	2	\$5.40
8525EM	5 ft. (10 Fold)	2½	6.00	8625EM	5 ft. (10 Fold)	...	Discont'd
8526EM	6 ft. (12 Fold)	3	7.20	8626EM	6 ft. (12 Fold)	3	7.80
7521ME	5 Fold, 1 metre	1¾	\$3.60	7621ME	5 Fold, 1 metre	..	Discont'd
7521ME	6 Fold, 1 metre	1¾	4.20	7621ME	6 Fold, 1 metre	..	Discont'd
7521ME	8 Fold, 1 metre	..	Discont'd	7621ME	8 Fold, 1 metre	..	Discont'd
7521ME	10 Fold, 1 metre	1¾	5.40	7621ME	10 Fold, 1 metre	..	Discont'd
7522ME	10 Fold, 2 metres	3¼	6.60	7622ME	10 Fold, 2 metres	..	Discont'd
7522ME	12 Fold, 2 metres	3¼	7.20	7622ME	12 Fold, 2 metres	..	Discont'd

Marked Metric Only.

Millimetres both sides.

Number		Wt. per Doz. lbs.	Per Doz.	Number		Wt. per Doz. lbs.	Per Doz.
7521MM	5 Fold, 1 metre	1¾	\$3.60	7621MM	5 Fold, 1 metre	..	Discont'd
7521MM	6 Fold, 1 metre	1¾	4.20	7621MM	6 Fold, 1 metre	..	Discont'd
7521MM	8 Fold, 1 metre	..	Discont'd	7621MM	8 Fold, 1 metre	..	Discont'd
7521MM	10 Fold, 1 metre	1¾	5.40	7621MM	10 Fold, 1 metre	..	Discont'd
7522MM	10 Fold, 2 metres	3¼	6.60	7622MM	10 Fold, 2 metres	..	Discont'd
7522MM	12 Fold, 2 metres	3¼	7.20	7622MM	12 Fold, 2 metres	..	Discont'd

Marked Metric, English and Burgos (Spanish).

Metric and Burgos one side; inches to 16ths other side.

Number		Wt. per Doz. lbs.	Per Doz.	Number		Wt. per Doz. lbs.	Per Doz.
7521MEB	6 Fold, 1 metre	1¾	\$4.80	7621MEB	6 Fold, 1 metre	..	Discont'd
7521MEB	10 Fold, 1 metre	1¾	6.00	7621MEB	10 Fold, 1 metre	..	Discont'd
7522MEB	10 Fold, 2 metres	3¼	7.20	7622MEB	10 Fold, 2 metres	..	Discont'd
8524EMB	8 Fold, 4 foot	2	5.40	8624EMB	8 Fold, 4 foot	...	Discont'd

Packing: 2 ft., 3 ft., and 1 metre rules, 1 doz. in a box;
all other lengths, ½ doz. in a box.

NOTE—See foot notes on page 134.

ALUMINUM RULES
Six-Inch Folds. 9/16 Inch Wide.



**FOR THESE RUST-PROOF AND LIGHT WEIGHT METAL RULES
THERE IS LARGE DEMAND**

**Our Aluminum Rule Is Of A Special Hardness,
Therefore Is Durable And Holds Its Shape Well.**

The Aluminum Rule occupies a position between folding wood and steel rules, both as regards weight and durability. It is especially popular in the building trades, and in mills, shops, etc., where folding wood rules are often broken.

While of a size accommodating good legible markings and figures, it is light and convenient to carry. Being of aluminum and having solid brass joints, our rules are rust-proof throughout. The spring joints are of the rivet type. The surface of rule is in natural color, with sunken graduations and figures in black showing up distinctly.

Marked Consecutive Inches to 16ths, Both Sides.

No.		Wt. Per Doz.	Per Doz.
1203	3 ft.	2 1/4 lbs.	\$12.60
1204	4 ft.	3 lbs.	16.80
1205	5 ft.	3 3/4 lbs.	21.00
1206	6 ft.	4 lbs.	25.20

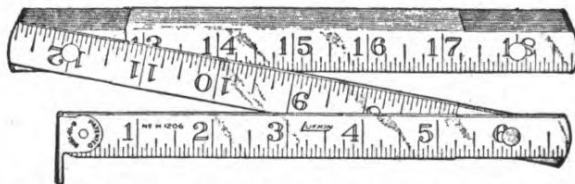
**Marked Feet, 10ths and 100ths of Feet, One Side;
Feet, Inches and 16ths, Other Side**

Graduations begin at same end on both sides.

No.		Wt. Per Doz.	Per Doz.
1306D	6 ft.	4 lbs.	\$25.20

Packing: 1/4 doz. in a box.

ALUMINUM RULES WITH FOLDING HOOK
Six-Inch Folds. 9/16 Inch Wide.



JUST THE THING FOR TAKING MEASUREMENTS OUT OF ARMS REACH

These Rules are same as those above except having hook. This is the feature that has proven so popular in connection with our Wood Rules. While ideal for taking measurements out of usual reach, it is handy in many other places, yet in no way interferes with the use of the rule in the ordinary manner.

A small substantial steel hook is fitted to one end, so attached that it readily folds up and remains flush with edge of rule. Zero point falls at inside of hook when open, at extreme end of rule, same as other rules, when hook is closed.

Marked Consecutive Inches to 16th, Both Sides.

No.		Wt. Per Doz.	Per Doz.
H1204	4 ft.	3 lbs.	\$18.00
H1205	5 ft.	3 3/4 lbs.	22.20
H1206	6 ft.	4 lbs.	26.40

**Marked Feet, 10ths and 100ths of Feet, One Side;
Feet, Inches and 16ths Other Side**

Graduations begin at same end on both sides.

No.		Wt. Per Doz.	Per Doz.
H1306D	6 ft.	4 lbs.	\$26.40

Packing: 1/4 doz. in a box.

Section Six
MISCELLANEOUS WOOD RULES
ET CETERA

THIS Section embraces the following varied assortment of Wood Rules, Measuring Sticks, and other unclassified items, practically all in common use:

FLAT WOOD RULES.
YARD STICKS.
METRE STICKS.
MANUAL TRAINING RULES.
BOXWOOD SHRINKAGE RULES.
EXTENSION RULES.
FREIGHT RULES.
GAUGING AND WANTAGE RODS.
SHOEMAKERS SIZE STICKS.

"PERFECTION" GLASS BOARDS.
GLASS CUTTERS AND GLAZIERS RULES.
GLASS CUTTERS L AND T SQUARES.

TAILORS AND DRESSMAKERS SQUARES.
TAILORS MEASURING STICKS.
YARD AND 1¼ YARD STICKS.
CURVE STICKS.

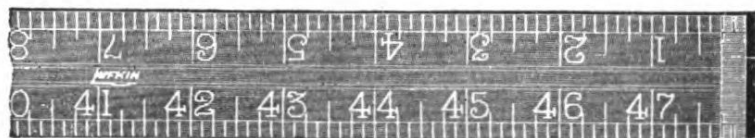
Most of these items are regularly stocked by hardware houses; all are obtainable through them. Some few, such for instance as Shoemakers Size Sticks, are distributed principally through supply houses reaching individual lines of trade.

"Perfection" Glass Boards, Glass Cutters Rules, etc., are handled as well by manufacturers and distributors of glass and supplies for that trade.

Our Tailors Squares and Measuring Sticks are stocked by tailor trimming houses in all centers. Ours is the most complete and high grade line of this kind, and on it, as on our other goods, we are equipped to give prompt, efficient service.

FLAT WOOD RULES

**Bench Rules For General Shop And Factory Use,
And For Saddlers, Mechanics, Etc.**



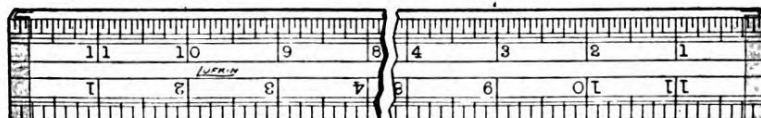
These are one-piece polished hard maple bench or table rules. On such work, or wherever many long measurements are taken, the 4, 5 and 6 foot lengths save much time as compared with yard sticks. Being marked both edges of both sides, with zero falling at opposite ends, these rules can instantly be brought to the work in any position.

The bound rules have brass binding entire length of both edges and are valuable in cutting or wherever the rule is subject to much wear.

Marked Both Sides, Both Edges, One Side 8ths, Other Side 16ths Inch.

No.	Length		Dimensions	Wt. Per Doz.	Per Doz.
7131	24 inch.	Brass Capped.	1½x3/16 inch.	2¼ lbs.....	\$ 6.60
7132	36 inch.	Brass Capped.	1½x3/16 inch.	3¼ lbs.....	9.60
7133	48 inch.	Brass Capped.	1½x¼ inch.	5½ lbs.....	13.20
7134	60 inch.	Brass Capped.	1½x¼ inch.	6¾ lbs.....	16.80
7135	72 inch.	Brass Capped.	1½x¼ inch.	8 lbs.....	21.00
7131½	24 inch.	Brass Bound.	1½x3/16 inch.	3¼ lbs.....	\$24.00
7132½	36 inch.	Brass Bound.	1½x3/16 inch.	5¼ lbs.....	33.00
7133½	48 inch.	Brass Bound.	1½x¼ inch.	9 lbs.....	42.00
7134½	60 inch.	Brass Bound.	1½x¼ inch.	10½ lbs.....	54.00
7135½	72 inch.	Brass Bound.	1½x¼ inch.	13½ lbs.....	66.00

MANUAL TRAINING RULES



Handy one-foot, one-piece rules that are especially popular in the manual training and vocational school fields.

Marked Both Sides, Both Edges, One Edge 8ths, Other Edge 16ths Inch.

No.	Length		Dimensions	Wt. Per Doz.	Per Doz.
34¼	1 ft. Maple.	Brass Capped.	1½x3/16 inch.	1 lb.....	\$4.80
34½	1 ft. Boxwood.	Brass Capped.	1½x3/16 inch.	1 lb.....	5.40

NOTE—For Steel Rule No. 60, 1 ft. and 2 ft. for school use, see page 107.

For 2 ft. Folding Wood Rule for manual training use, see page 126.

BOXWOOD SHRINKAGE RULES

For Pattern Makers

THE
LUFKIN
RULE
CO.



TWO FOOT. BRASS CAPPED.

Boxwood Shrinkage Rules are suitable for rough work. Ours are high grade rules of their kind, of genuine boxwood, nicely finished.

On all close work machine divided steel shrinkage rules, such as our No. 83 line, page 106, should be used, as they carry fine graduations and can be depended upon for a high degree of accuracy.

(On the rules below shrinkage allowance is included in all measurements throughout. They are full 2 feet long in shrinkage measurement, i. e., extreme length of No. 8201 is 24-1/8 inches, No. 8202, 24-2/12 inches, etc.)

Marked Both Sides, Both Edges; One Side 8ths, Other Side 16ths.

Dimensions: 1 1/2 x 1/8 inch.

No.	Shrinkage	Per Doz.
8201	1/16 inch per foot.	\$19.80
8202	1/12 inch per foot.	19.80
8203	1/10 inch per foot.	19.80
8204	3/32 inch per foot.	19.80
8205	1/8 inch per foot.	19.80
8206	3/16 inch per foot.	19.80
8207	1/4 inch per foot.	19.80
8208	5/16 inch per foot.	19.80
8209	3/8 inch per foot.	19.80
8251	1/2 inch per foot.	21.00
8252	3/4 inch per foot.	21.00
8253	7/8 inch per foot.	22.20
8254	15/16 inch per foot.	22.20
8255	1 inch per foot.	22.20

Weight Per Doz., 2 1/4 lbs.

Marked Both Sides, Both Edges: 8ths, 10ths, 12ths, 16ths.

Dimensions: 1 1/2 x 1/8 inch.

No.	Shrinkage	Per Doz.
8211	1/16 inch per foot.	\$19.80
8212	1/12 inch per foot.	19.80
8213	1/10 inch per foot.	19.80
8214	3/32 inch per foot.	19.80
8215	1/8 inch per foot.	19.80
8216	3/16 inch per foot.	19.80
8217	1/4 inch per foot.	19.80
8218	5/16 inch per foot.	19.80

Weight Per Doz., 2 1/4 lbs.

Marked Both Sides, Both Edges; One Side 8ths, Other Side 16ths.

Dimensions: 1 1/4 x 1/8 inch.

No.	Shrinkage	Per Doz.
823	1/10 inch per foot.	\$17.40
825	1/8 inch per foot.	17.40
826	3/16 inch per foot.	17.40

Weight Per Doz., 2 lbs.

Packing: All packed 1/2 doz. in a box.

NOTE—For Steel Shrinkage Rules, see pages 106 and 107.

EXTENSION RULES



Used in measuring between fixed points such as floor and ceiling, across large openings, etc. Made of maple, with sections 1 inch wide, $\frac{3}{8}$ inch thick. Clamps and end plates are brass plated. The rules are fitted with tension spring and set screw, securely holding the sections when closed or extended to any distance. They have stop at both ends so sections cannot fall apart.

In Two Sections. With Set Screw.

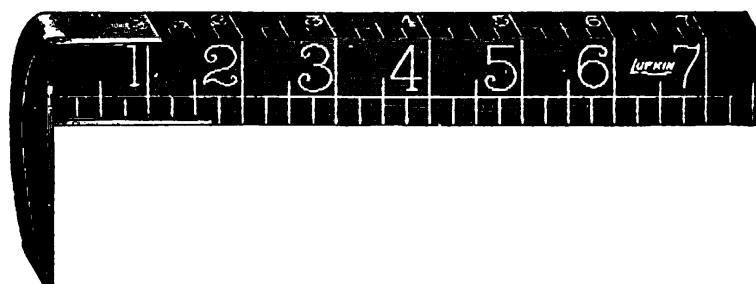
Marked Feet, Inches and 8ths Both Sides.

No.	Length Extended	Length Closed	Wt. Per Doz.	Per Doz.
7162	4 ft.	2 ft.	6½ lbs.	\$18.00
7163	6 ft.	3 ft.	8½ lbs.	21.00
7164	8 ft.	4 ft.	11 lbs.	24.00
7165	10 ft.	5 ft.	14 lbs.	30.00
7166	12 ft.	6 ft.	16½ lbs.	36.00

(While regularly marked as above, these can be furnished in consecutive inches, without additional charge.)

NOTE—For Folding Boxwood Rules with Extension Slide, see page 133

FREIGHT RULES



These are extra durable, long hard maple rules with heavy end hook. They are well suited for quickly measuring boxes, crates, etc., around warehouses and docks, and for other heavy and rough work in shipping departments, at factories, and elsewhere. Both the rule and hook are sturdy, the former being of polished maple $1\frac{3}{8}$ inch, the latter of heavy cast brass extending 2 inches from edge of rule and most securely attached. Handle end of rule is rounded and with hole for hanging up.

Marked Feet, Inches and Quarters On Two Sides And Top Edge.

No.	Length	Wt. Per Doz.	Per Doz.
7155	5 ft.	14 lbs.	\$42.00
7156	6 ft.	16 lbs.	45.00

GAUGING RODS

THE
LUFKIN
RULE
CO.

For determining capacity of standard type barrels (not drums). All of these rods are 7/16 inch square, of hardwood, nicely finished, and with zero end pointed and metal covered. In addition to gallon measurement, all are marked in 10ths of inches.

Directions For Determining Barrel Capacity.

Insert Rod through the bung hole in the side of the barrel diagonally over to the head or end. Do this in both directions, right and left. Read the Rod at the center of the bung for both insertions, and take the average of the two readings. Example: If one reading is 50, and the other 48 gallons, the average, 49 gallons, is the capacity, i. e., contents when full.

Maple. With Brass Point.

No.	Capacity	Length	Wt. Per Doz.	Per Doz.
7181	120 gals.	3 ft.	2 1/4 lbs.	\$15.00
7182	200 gals.	3 1/2 ft.	2 3/4 lbs.	24.00
7183	300 gals.	4 ft.	3 lbs.	25.80
7184*	300 gals.	4 ft.	3 lbs.	36.00

*With wantage table for 42 gallon barrel of 22 inch bung diameter.

Boxwood.

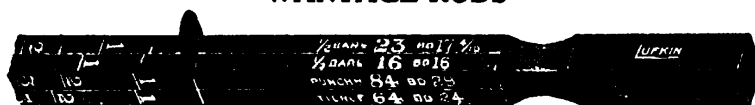
With Steel Tipped Brass Point, Ivory Face, Brass Back.

A Rod of extra high grade and fine finish.

No.	Capacity	Length	Wt. Per Doz.	Per Doz.
7284	120 gals.	3 ft.	3 3/4 lbs.	\$115.20

With wantage table for 42 gallon barrel of 22 inch bung diameter.

WANTAGE RODS



For determining wantage or outage of standard type barrels. Overall length 18 inches. The 8-line rod is suitable for measuring wantage of barrels of 8 standard sizes, the 12-line will take care of 12 standard sizes.

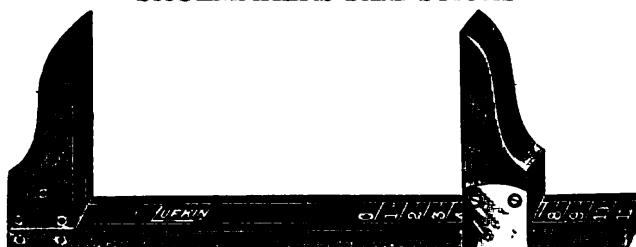
Directions For Determining Wantage.

Barrel should lay level on its side. Insert the Rod slowly and straight into the barrel through the bung hole at its side until brass angle of the rod rests under and against the staves. Using the column of figures that represents the capacity and bung diameter of the barrel, read the line of the liquid. If, for example, Rod is wet as far as 10, it shows a shortage of 10 gallons.

No.	Dimensions	Wt. Per Doz.	Per Doz.
7187	8 lines. Maple. 1/2 inch square	2 lbs.	\$24.00
7188	12 lines. Maple. 3/8 inch square	2 1/4 lbs.	36.00

NOTE—Gauging and Wantage Rods can be furnished in Imperial gallon measurements.

SHOEMAKERS SIZE STICKS

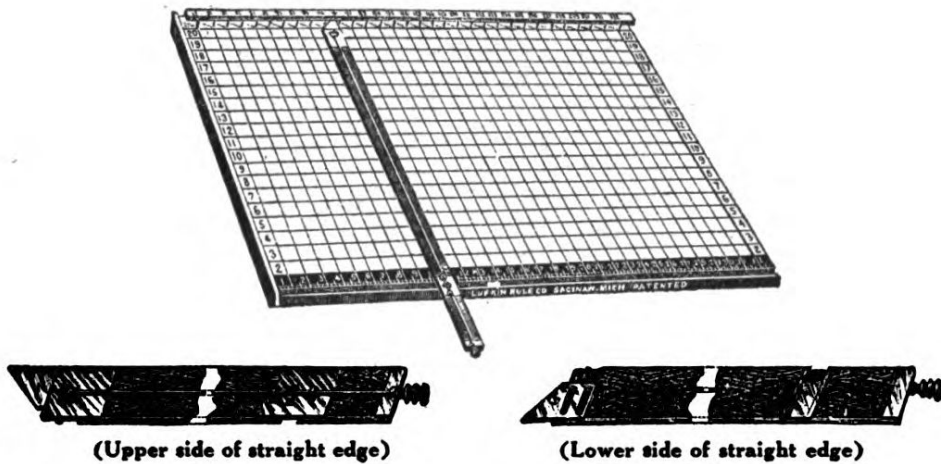


Used in shoe stores, etc., for determining shoe sizes. These sticks carry on the inside face the standard scale of shoe sizes and half sizes; on the back 12 inches in 8ths. They have one stationary and one sliding jaw. The maple sticks are 3/4x5/16x15 1/2 inches. No. 8221 is 15/16x5/16x16 inches.

No.	Dimensions	Wt. Per Doz.	Per Doz.
8120	Maple, with steel trimmings.	2 lbs.	\$ 8.40
8121	Maple, with brass trimmings.	2 lbs.	10.20
8221	Boxwood, with brass trimmings.	3 3/4 lbs.	19.20
8223	Boxwood, folding, for pocket use. Brass trimmings.	2 1/4 lbs.	31.20

"PERFECTION" GLASS BOARDS

With Adjustable Straight Edge



**AN INDISPENSABLE ARTICLE TO ALL DEALERS IN WINDOW GLASS.
WILL SAVE ITS COST IN A SHORT TIME.**

The "Perfection" Glass Board is the modern device for cutting glass accurately and uniformly to size, in inches or fractions of inches.

The Board is made of narrow strips of well seasoned lumber, dovetail cleated. It is ruled in inches both ways, and well finished. By means of guide at the left edge and the upper edge the glass is quickly brought into position. The front edge has an embedded steel rule distinctly marked in inches and 8ths, by which the straight edge is set. The other three edges of the board are numbered in inches.

The Straight Edge is a unique and improved device, very simple and positive in operation. By turning knob at front end it is moved backward or forward to any inch or part of an inch on the steel rule; and turning the set screw on top locks it firmly at any location. When more than one light of glass of the same size is to be cut, the screw once set, every light will be exactly same size.

"PERFECTION" GLASS BOARDS

Size of Board	Wt. each, Packed	Price, Each
24 x 36 inches	36 lbs.	\$25.00
30 x 48 inches	58 lbs.	31.70
36 x 54 inches	72 lbs.	36.70
42 x 60 inches	100 lbs.	41.70
48 x 72 inches	136 lbs.	53.35

Straight Edges Only.

For "Perfection" Glass Boards.

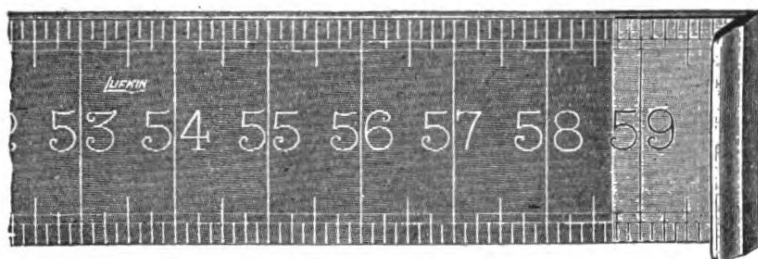
The Straight Edge, being the part of a Glass Board that receives most wear, we list below extra Straight Edges Only, which fit our standard size boards. These are Straight Edges complete with fittings.

For Board size 24 x 36.....	Price, Each	\$6.00
For Board size 30 x 48.....	Price, Each	6.20
For Board size 36 x 54.....	Price, Each	6.35
For Board size 42 x 60.....	Price, Each	6.50
For Board size 48 x 72.....	Price, Each	6.70

GLASS CUTTERS RULES

With Brass Flange Or Lip

THE
WUFGIN
RULE
CO.



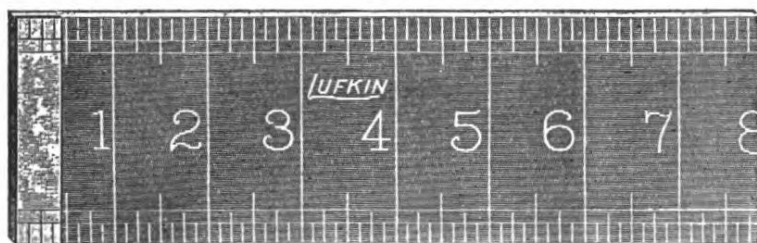
Glass Cutters Rules are put to severe use. Ours are of hard maple, of ample dimensions. They are fitted at one end with heavy cast brass lip securely attached by riveting through brass side plates, other end brass tipped. Lip extends $\frac{9}{16}$ inch from flat face of rule. On upper face of rule zero point is at inside of lip and figures are placed perpendicularly. These rules are very well finished.

Marked Both Sides, Both Edges, Consecutive Inches To 8ths.

No.	Length	Dimensions	Wt. Each	Price, Each
7141	36 inch	2" x $\frac{1}{4}$ inch	$\frac{1}{2}$ lbs.	\$ 3.40
7142	48 inch	2" x $\frac{1}{4}$ inch	$\frac{3}{4}$ lbs.	4.00
7143	60 inch	2" x $\frac{1}{4}$ inch	1 $\frac{1}{4}$ lbs.	4.80
7144	72 inch	2" x $\frac{3}{8}$ inch	1 $\frac{3}{4}$ lbs.	5.80
7145	84 inch	2" x $\frac{3}{8}$ inch	2 lbs.	7.00
7146	96 inch	2" x $\frac{3}{8}$ inch	2 $\frac{1}{4}$ lbs.	8.50
7147	108 inch	2" x $\frac{3}{8}$ inch	3 lbs.	10.30
7148	120 inch	2" x $\frac{3}{8}$ inch	3 $\frac{3}{4}$ lbs.	12.40
7149	144 inch	2" x $\frac{3}{8}$ inch	5 $\frac{1}{2}$ lbs.	17.00

GLAZIERS RULES

Flat, Without Lip



Well finished, hard maple rules, with both ends brass tipped.

Marked Both Sides.

One Side, Both Edges, Consecutive Inches To 8ths.

One Side, Lower Edge Consecutive Inches To 8ths, Upper Edge Feet And Quarters.

No.	Length	Dimensions	Wt. Each	Price, Each
7136	36 inch	1 $\frac{1}{2}$ x $\frac{1}{4}$ inch	$\frac{1}{2}$ lbs.	\$1.00
7137	48 inch	1 $\frac{3}{4}$ x $\frac{1}{4}$ inch	$\frac{3}{4}$ lbs.	1.40
7138	60 inch	1 $\frac{3}{4}$ x $\frac{1}{4}$ inch	$\frac{3}{4}$ lbs.	2.00
7139	72 inch	1 $\frac{3}{4}$ x $\frac{1}{4}$ inch	1 lbs.	2.80
7140	84 inch	2 x $\frac{1}{4}$ inch	1 lbs.	4.00

GLASS CUTTERS "L" AND "T" SQUARES

These are well made polished hardwood squares designed for glass cutting and similar work.

In Addition To Length Always Specify Whether "L" Or "T" Square Is Wanted.

"L" SQUARES

Blade of hard maple, 3 inches wide, (except 24 inch— $2\frac{1}{2}$ inches wide) $\frac{1}{4}$ inch thick and marked outer edge of both sides inches to 8ths. Blade is mortised through and securely riveted into the stock.

The stock is of hard maple, $2\frac{1}{2}$ inches wide, $13/16$ inch thick, brass bound on inner face, and has shoulder on both sides of blade so square can be used on either side. Square has substantial corner brace with brass side plates.

Lengths given above are graduated length of the blade. Stock of the 24-inch square is 21 inches long, of the 36 and 48-inch, 27 inches, of the 60-inch, 30 inches long.

Length	Wt. Each	Each
24 inch L Square	2 lbs.	\$16.00
36 inch L Square	$2\frac{1}{4}$ lbs.	17.50
48 inch L Square	$2\frac{1}{2}$ lbs.	20.00
60 inch L Square	3 lbs.	25.00

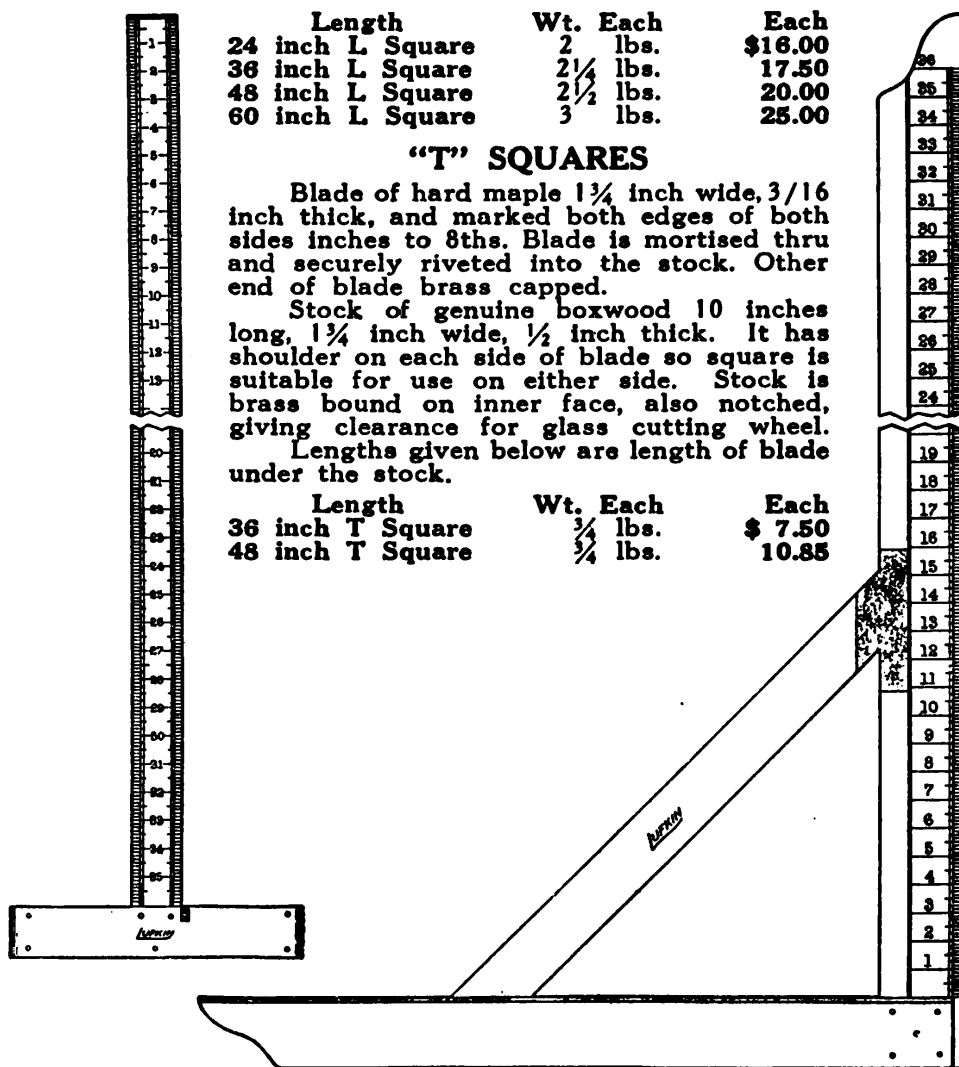
"T" SQUARES

Blade of hard maple $1\frac{3}{4}$ inch wide, $3/16$ inch thick, and marked both edges of both sides inches to 8ths. Blade is mortised thru and securely riveted into the stock. Other end of blade brass capped.

Stock of genuine boxwood 10 inches long, $1\frac{3}{4}$ inch wide, $\frac{1}{2}$ inch thick. It has shoulder on each side of blade so square is suitable for use on either side. Stock is brass bound on inner face, also notched, giving clearance for glass cutting wheel.

Lengths given below are length of blade under the stock.

Length	Wt. Each	Each
36 inch T Square	$\frac{3}{4}$ lbs.	\$ 7.50
48 inch T Square	$\frac{1}{2}$ lbs.	10.85



NOTE—Above lengths of L and T Squares are the popular ones, and the only ones we regularly stock. The demand for other lengths is very limited, and as they are made to order, their cost is considerably higher.

For Glass Cutting Boards, see page 142.

YARD STICKS

Polished Hardwood

**THE
LUFKIN
RULE
CO.**

Our Yard Sticks are of the better grades, of hardwood, in the natural finish. The lines and figures, in black, show up distinctly. The sticks are well surfaced, finished and polished. We do not manufacture the very common soft wood and stained sticks.



Marked Both Sides.

One side lower edge inches to 8ths; other side fractions of yards.

No.		Dimensions	Ends	Wt. Per Doz.	Per Doz.
7121	Maple.	1 x 1/4 inch.	Plain.	2 3/4 lbs.	\$4.20
7122	Maple.	1 x 1/4 inch.	Brass capped.	2 3/4 lbs.	6.00
7424	Hickory.	1 x 1/4 inch.	Brass capped.	3 3/4 lbs.	9.00
7422	Hickory.	7/8 x 3/16 inch.	Brass capped.		
		Rounded edges, flexible.		2 1/2 lbs.	8.40



Marked Both Sides.

Lower edge inches to 8ths, upper edge fractions of yards.

No.		Dimensions	Ends	Wt. Per Doz.	Per Doz.
7115	Maple.	1 1/4 x 3/16 inch.	Plain.	2 3/4 lbs.	\$6.00
7116	Maple.	1 1/4 x 3/16 inch.	Brass capped.	2 3/4 lbs.	7.80
7129	Maple.	1 1/4 x 5/16 inch.	Brass capped.	4 1/2 lbs.	9.60
7429	Hickory.	1 1/4 x 5/16 inch.	Brass capped.	5 1/2 lbs.	13.80

NOTE—For Flat Wood or Bench Rules 24 to 72 inches long, see page 138.

See also Tailors Measuring Sticks, page 146.

METRE STICKS

Marked Metric And English



We make only the better grade of Metre Sticks, of polished hard maple. 1 metre (39.37 inch) long, 25 millimetres (1 inch) wide, 8 millimetres (5/16 inch) thick.

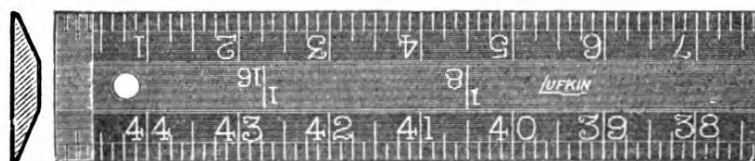
Marked One Edge Of Both Sides.

One Side, Lower Edge Only, In Centimetres And Millimetres;

Other Side, Upper Edge Only, Inches To 8ths.

No.	Length		Wt. Per Doz.	Per Doz.
7111ME	1 metre.	Plain Ends.	3 lbs.	\$6.00
7112ME	1 metre.	Brass tipped ends.	3 lbs.	7.80

BEVELED YARD STICKS. BEVELED YARD AND QUARTER STICKS. Polished Hardwood



These are popular in the tailoring and dressmaking trades, and other places in laying out and cutting work. They are double beveled on one side so lay close to the work. They are of hardwood in the natural finish. The stamped lines and figures filled in black are permanent and easily read. The sticks are smooth and well finished.

All Sticks Below Are Marked One Side,
on both bevels in inches to 8ths, down the center in fractions of yards.

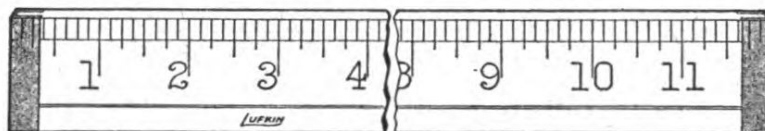
Beveled Yard Sticks

No.	Dimensions	Ends	Wt. Per Doz.	Per Doz.
7124	36 inch. Maple. $1\frac{1}{2} \times 5/16$ inch.	Plain.	4 lbs.	\$7.20
7125	36 inch. Maple. $1\frac{1}{2} \times 5/16$ inch.	Brass tipped.	4 lbs.	10.80

Beveled Yard and Quarter Sticks

7126	45 inch. Maple. $1\frac{1}{2} \times 5/16$ inch.	Plain.	5 lbs.	\$7.80
7127	45 inch. Maple. $1\frac{1}{2} \times 5/16$ inch.	Brass tipped.	5 lbs.	12.00
7128	45 inch. Maple. Jointed, two-piece. $1\frac{1}{2} \times 5/16$ inch.	Brass Joint. Brass tipped ends.	6 $\frac{3}{4}$ lbs.	48.00

TAILORS MEASURING STICKS



While low in price, these are polished hard maple rules, plainly marked. They are especially popular in the tailoring and dressmaking trades, schools, etc. All are $1\frac{1}{4}$ inch wide, $3/16$ inch thick.

Marked Inches And 8ths Upper Edge Of Both Sides.

No.	Length	Plain Ends.	Wt. Per Doz.	Per Doz.
7031	12 inch	Plain Ends.	1 lbs.	\$3.00
7031	18 inch	Plain Ends.	1 $\frac{1}{2}$ lbs.	3.60
7031	24 inch	Plain Ends.	2 lbs.	4.20
7031	36 inch	Plain Ends.	3 lbs.	5.40
7030	12 inch	Brass Capped Ends.	1 lbs.	4.20
7030	18 inch	Brass Capped Ends.	1 $\frac{1}{2}$ lbs.	4.80
7030	24 inch	Brass Capped Ends.	2 lbs.	5.40

NOTE—See also Yard Sticks, page 145.

CURVE STICKS



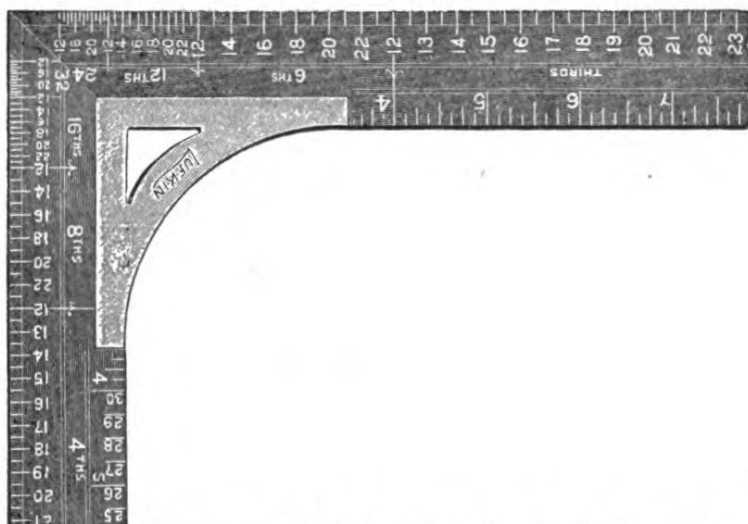
Used in tailoring work. Of well finished hard maple. Length, 24 inches. Thickness, $\frac{1}{8}$ inch.

Marked Both Sides Inches To 8ths.

No.	Plain Ends.	Wt. Per Doz.	Per Doz.
8151	Plain Ends.	1 $\frac{1}{4}$ lbs.	\$4.80
8152	Brass Capped Ends.	1 $\frac{1}{4}$ lbs.	7.20

TAILORS AND DRESSMAKERS SQUARES

THE
LUFKIN
RULE
CO.



Made of genuine boxwood and of selected hard maple. These squares are of the weight preferred by the tailoring trade, yet constructed so as to be serviceable. All have brass corner plate and corner brace. All carry on one side tailors measurements (regular or reverse as described below); other side inches and 8ths. They are marked by the best methods to insure permanence and legibility. They are well surfaced and finely finished.

Regular Graduation:

Short arm in 32nds, 16ths, 8ths, quarters and halves.
Long arm in 24ths, 12ths, 6ths, thirds and two-thirds.

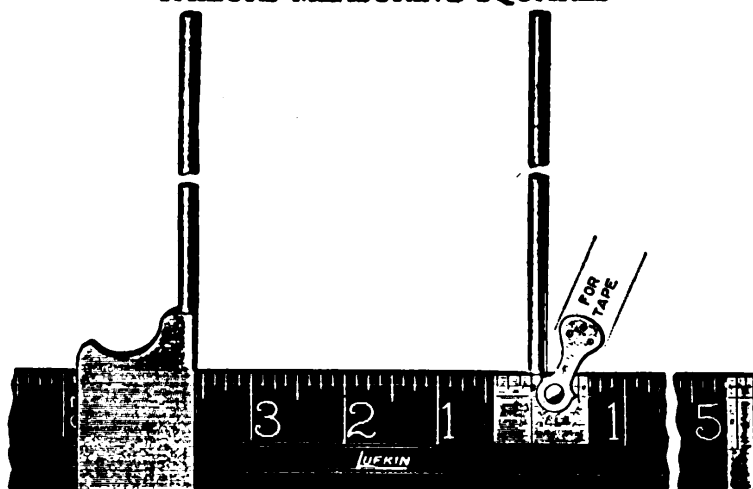
Reverse Graduation:

Short arm in 24ths, 12ths, 6ths, thirds and two-thirds.
Long arm in 32nds, 16ths, 8ths, quarters and halves.

No.	Size		Graduation	Ends	Wt. Per Doz.	Per Doz.
8130	14x24 inch.	Maple.	Regular	Plain.	2 lbs.	\$21.60
8132	14x24 inch.	Maple.	Regular	Brass capped.	2 lbs.	24.00
8134	14x24 inch.	Maple.	Reverse	Plain.	2 lbs.	24.00
8135	14x24 inch.	Maple.	Reverse	Brass capped.	2 lbs.	26.40
8231	12x24 inch.	Boxwood.	Regular	Brass capped.	2 1/2 lbs.	25.20
8232	14x24 inch.	Boxwood.	Regular	Brass capped.	2 1/2 lbs.	26.40
8233	12x24 inch.	Boxwood.	Reverse	Brass capped.	2 1/2 lbs.	27.60
8235	14x24 inch.	Boxwood.	Reverse	Brass capped.	2 1/2 lbs.	28.80
8236	Half Size Square.					
	6x12 inch.	Boxwood.	Regular.	Brass capped.	1 lb.	\$26.40
	All graduations reduced to half size, making capacity of square 12x24 inches.					
8237	Quarter Size Square.					
	4x6 inch.	Boxwood.	Regular.	Brass capped.	1/2 lb.	\$26.40
	All graduations reduced to quarter size, making capacity of square 16x24 inches.					
8238	Jointed Square.					
	14x24 inch.	Boxwood.	Regular.	Brass capped.	5 1/2 lbs.	\$54.00
	Corner full brass both sides and has substantial, well fitted snap joint. Most easily set up and taken down. This square is of extra weight throughout.					

NOTE—For Tailors Tapes, see page 57.

TAILORS MEASURING SQUARES



**Measuring Squares With 9-Inch Stationary And Sliding Brass Arms,
With 24-Inch Bar Marked Inches And 8ths Both Sides.**

Sliding arm has tension spring. Squares have tape attachment.

No.	Size	Material	Ends	Wt. Per Doz.	Per Doz.
8140	9x24 inch.	Maple.	Brass capped.	5 lbs.	\$66.00
8240	9x24 inch.	Boxwood.	Brass capped.	5 lbs.	68.40

**Measuring Square With 7-Inch Stationary And Sliding Boxwood Arms, 14-Inch
Boxwood Bar With 14-Inch Flexible Brass Strip On Reverse Side.**

Bar and arms marked one side inches and 8ths, brass strip in inches and quarters. Sliding arm has tension spring; square has tape attachment.

8241	7x14 inch.	Boxwood.	Plain ends, rounded.	Per Doz.	\$54.00
Regularly made in right shoulder pattern. Sometimes known as the Mitchell square. Weight per doz., 3¼ lbs.					

Measuring Squares

8142	14x24 inch.	Maple, with brace.	Plain ends.	Per doz.	\$19.20
------	-------------	--------------------	-------------	----------	---------

A standard type Tailors Square same as No. 8130, but marked both sides inches and 8ths only. This item is popular in instruction work, as at schools, etc., and wherever a simple measuring square is needed in the tailoring and dressmaking trades. Weight per doz. 2 lbs.

8246	Arm Square.	6x10 inch.	Boxwood.	Plain ends.	Per Doz. \$14.40
Marked inches and 16ths both sides. With tape attachment. Weight Per Doz., ¾ lbs.					

METRIC TAILORS SQUARES

All With One Edge Beveled

These are standard Metric Measuring Squares. They are substantially built of genuine boxwood and selected hard maple. All have brass corner plate and corner brace. All are marked on the bevel and on one edge of the opposite side. These squares are marked by the best methods to insure permanence and legibility, are smooth and well finished.

Marked One Edge Of Both Sides in Millimetres.

No.	Size	Material	Ends	Wt. Per Doz.	Per Doz.
8147MM	35x60 cm.	Maple.	Plain.	3 lbs.	\$25.20
8148MM	35x60 cm.	Maple.	Brass capped.	3 lbs.	27.60
8248MM	35x60 cm.	Boxwood.	Brass capped.	3½ lbs.	34.80

Marked One Edge Of Both Sides.

One side (on bevel) millimetres, other side inches and 8ths.

8147ME	35x60 cm.	Maple.	Plain.	3 lbs.	\$25.20
8148ME	35x60 cm.	Maple.	Brass capped.	3 lbs.	27.60
8248ME	35x60 cm.	Boxwood.	Brass capped.	3½ lbs.	34.80

NOTE—For Tailors Tapes, see page 57.

Section Seven

LUMBER RULES

ET CETERA

LUMBER RULES, classified as Board and Log Rules, were our original line of manufacture and we are the largest makers of rules of this kind. Lufkin Lumber Rules are familiarly and favorably known wherever logs or lumber are handled.

The highest grade of hickory, though scarce as compared with the earlier days, is obtained for our rules by inspectors in the field, who have been with us for years and have made a study of our peculiar requirements.

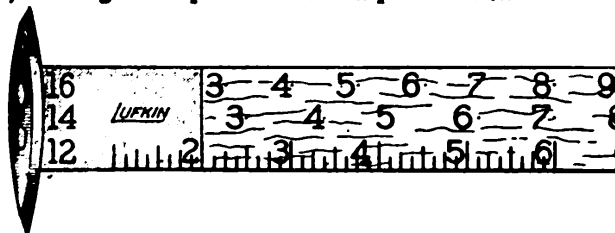
As Narrow Pattern Board Rules became more popular we added to our line the N and XN Rules, 1 inch and $\frac{7}{8}$ inch wide respectively. However, from the standpoint of durability, we recommend the use of Board Rules not less than 1 inch wide and preferably the old standard width, $1\frac{1}{8}$ inch. As lumber became more valuable there developed a demand for Board Rules with Half-Foot Marks, which accordingly were added to our line. Still more recently we brought out the Folding Spring Joint Board Rule and the Folding Spring Joint Log Rule, which are conveniently carried in the pocket and are suitable for certain classes of work. We have endeavored always to meet the new demands brought about by changing conditions in the lumber industry.

Details as to the different markings on both Board and Log Rules, the various log scales, etc., are given on the following pages.

This Section of Catalog covers also Combination Board and Log Rules, Steel Board Rules, Log Calipers, Biltmore Sticks, Dip Rods, Marking Sticks, Lumber Gages, Boot Calks and Calk Sets.

HICKORY BOARD RULES

All of selected second growth white hickory, tough and flexible. The heads are most substantially made and securely attached. They consist of tempered steel cap riveted and brazed to brass shoulders (except No. 4). All have nicely formed 6-inch wedge handle and are well finished. The markings are burnt, making them prominent and permanent.



Burnt Figures. Oval Head.

MARKINGS

8/18 rules measure one side 12, 14, 16; other side 8, 10, 18 foot lengths.
12/22 rules measure one side 12, 14, 16; other side 18, 20, 22 foot lengths.

All Rules On This Page Are Marked 8/18 or 12/22.

8/18 Rules Are Supplied Unless 12/22 Is Specified.

STANDARD WIDTH RULES

No.		Per Doz.
1	3-tier. Width, 1½ inch. Full length, 3½ ft. Figured 36 inches. Furnished marked 8/18 unless 12/22 is specified. Heavy brazed head (steel cap and 2-inch brass shoulders) Weight per doz., 7½ lbs. Sometimes known as the inspectors' rule.	\$33.60
2	3-tier. Width, 1½ inch. Full length, 3 ft. Figured 30 inches. Furnished marked 8/18 unless 12/22 is specified. Heavy brazed head (steel cap and 2-inch brass shoulders). Weight per doz., 6 lbs. Most popular of all Board Rules for general work.	\$31.20
2½	3-tier. Width, 1½ inch. Full length, 2½ ft. Figured 24 inches. Furnished marked 8/18 unless 12/22 is specified. Heavy brazed head (steel cap and 2-inch brass shoulders) Weight per doz., 6 lbs. Known as the sorting rule.	\$30.00
3	3-tier. Width, 1½ inch. Full length, 3 ft. Figured 30 inches. Furnished marked 8/18 unless 12/22 is specified. Heavy brazed head (steel cap and 1½-inch brass shoulders). Weight per doz., 6 lbs.	\$28.80

NARROW RULES

1N	3-tier. Width, 1 inch. Full length, 3½ ft. Figured 36 inches. Furnished marked 8/18 unless 12/22 is specified. Heavy brazed head (steel cap and 2-inch brass shoulders). Weight per doz., 6½ lbs.	\$33.60
1XN	3-tier. Width, ¾ inch. Full length, 3½ ft. Figured 36 inches. Furnished marked 8/18 unless 12/22 is specified. Heavy brazed head (steel cap and 2-inch brass shoulders). Weight per doz., 6 lbs.	\$33.60
2N	3-tier. Width, 1 inch. Full length, 3 ft. Figured 30 inches. Furnished marked 8/18 unless 12/22 is specified. Heavy brazed head (steel cap and 2-inch brass shoulders). Weight per doz., 5¼ lbs.	\$31.20
2XN	3-tier. Width, ¾ inch. Full length, 3 ft. Figured 30 inches. Furnished marked 8/18 unless 12/22 is specified. Heavy brazed head (steel cap and 2-inch brass shoulders). Weight per doz., 5 lbs.	\$31.20

NOTE—For these rules with markings other than as listed above an extra charge is made.

HICKORY BOARD RULES

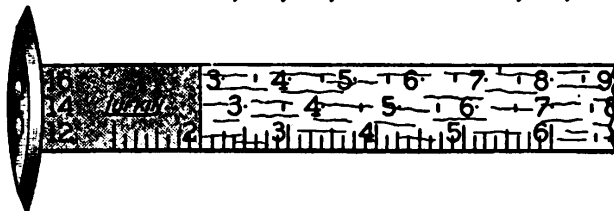
With Half-Foot Marks.

Burnt Figures. Oval Head.

Hardwood Manufacturers Association Rules.
National Hardwood Lumber Association Rules.

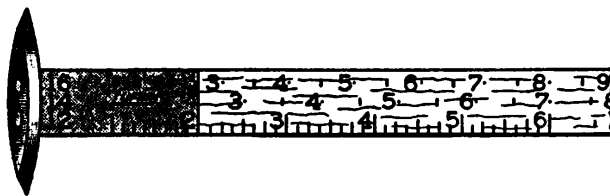
These Rules are same as our others, except having half-foot marks, the half feet indicated by vertical dashes, the feet by dots. They are coming more and more into use, particularly in measuring hardwoods, and have been adopted as standard by the Associations mentioned above. All have 6-inch wedge handle.

All Rules Below Except No. 08 Are Marked 8/18, i. e.,
One Side To Measure 8, 10, 18, Other Side 12, 14, 16 Feet.



STANDARD WIDTH RULES WITH HALF-FOOT MARKS

No.		Per Doz.
01	3-tier. Width, 1 1/2 inch. Full length, 3 1/2 ft. Figured 36 inches. Heavy brazen head (steel cap and 2-inch brass shoulders). Marked 8/18. Weight per doz., 7 1/2 lbs.	\$36.00
02	3-tier. Width, 1 1/2 inch. Full length, 3 ft. Figured 30 inches. Heavy brazen head (steel cap and 2-inch brass shoulders). Marked 8/18. Weight per doz., 6 lbs.	\$33.60
03	3-tier. Width, 1 1/2 inch. Full length, 3 ft. Figured 30 inches. Heavy brazen head (steel cap and 1 1/2-inch brass shoulders). Marked 8/18. Weight per doz., 6 lbs.	\$31.20
08	4-tier. Width, 1 1/2 in. Full length, 3 ft. Figured 30 in. Heavy brazen head (steel cap and 1 1/2 inch brass shoulders). Marked, one side 9, 11, 13, 15; other side, 12, 10, 14, 16 ft. Weight per doz., 6 3/4 lbs.	\$33.60



NARROW RULES WITH HALF-FOOT MARKS

01N	3-tier. Width, 1 inch. Full length, 3 1/2 ft. Figured 36 inches. Heavy brazen head (steel cap and 2-inch brass shoulders). Marked 8/18. Weight per doz., 6 1/2 lbs.	\$36.00
02N	3-tier. Width, 1 inch. Full length, 3 ft. Figured 30 inches. Heavy brazen head (steel cap and 2-inch brass shoulders). Marked 8/18. Weight per doz., 5 1/4 lbs.	\$33.60
02XN	3-tier. Width, 3/4 inch. Full length, 3 ft. Figured 30 inches. Heavy brazen head (steel cap and 2-inch brass shoulders). Marked 8/18. Weight per doz., 5 lbs.	\$33.60

NOTE—For general description of Board Rules, see top of page 150.
For these Rules with markings other than as listed above an extra charge is made.

THE
UFKIN
RULE
CO.

HICKORY BOARD RULES

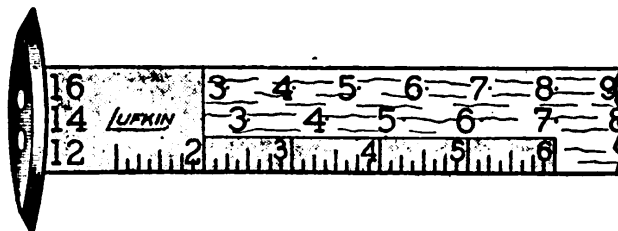
Burnt Figures. Oval Head.

EXPLANATION OF MARKINGS

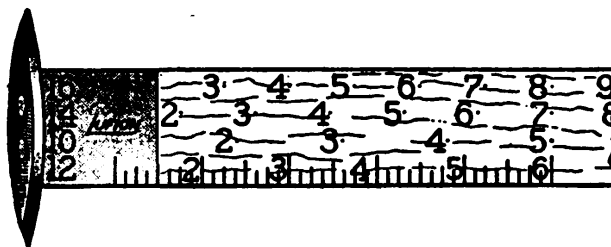
- 8/16 Rules are marked one side to measure 12, 14, 16; other side 8, 10, 16 ft.
 12/22 Rules are marked one side to measure 12, 14, 16; other side 18, 20, 22 ft.
 8/22 Rules are marked one side to measure 12, 14, 16, 18; other side 8, 10, 20, 22 ft.
 9/16 Rules are marked one side to measure 9, 11, 13, 15; other side 12, 10, 14, 16 ft.
 7/16 Rules are marked one side to measure 7, 8, 9, 10, 11; other side 12, 13, 14, 15, 16 ft.

On Nos. 6 and 4, 8/18 marking is supplied unless 12/22 is specified.

On No. 8, 9/16 marking is supplied unless 8/22 is specified.



- | | | |
|------------|--|-----------------|
| No. | | Per Doz. |
| 6 | <p>3-tier. Width, 1 1/4 inch. Full length, 3 ft. Figured 30 inches.
 Marked 8/16 or 12/22, see explanation at top of page.
 With 6-inch brass plate in 8ths, as illustrated.
 Heavy brazed head (steel cap and 2-inch brass shoulders).
 Weight per doz., 6 3/4 lbs.</p> | \$33.60 |
| 4 | <p>Board Rule, With Socket Steel Square Head Only.
 3-tier. Width, 1 1/4 inch. Full length, 3 ft. Figured 30 inches.
 Marked 8/16 or 12/22, see explanation at top of page.
 Weight per doz., 6 lbs. A low-priced, yet serviceable Rule.</p> | \$26.40 |



- | | | |
|-----------|--|----------------|
| 8 | <p>4-tier. Width, 1 1/4 inch. Full length, 3 ft. Figured 30 inches.
 Marked 9/16 or 8/22, see explanation at top of page.
 Heavy brazed head (steel cap and 1 1/2-inch brass shoulders).
 Weight per doz., 6 1/4 lbs. This rule can be furnished in 9/16 marking, left-hand, without extra charge.</p> | \$31.20 |
| 10 | <p>5-tier. Width, 1 1/4 inch. Full length, 3 ft. Figured 30 inches.
 Marked 7/16, see explanation at top of page.
 Heavy brazed head (steel cap and 1 1/2-inch brass shoulders).
 Weight per doz., 7 1/2 lbs.</p> | \$37.80 |
| 50 | <p>Export Rule. Marked both sides in inches and half-inches only.
 1-tier. Width, 1 inch. Full length, 3 ft. Figured 30 inches.
 Heavy brazed head (steel cap and 2-inch brass shoulders).
 Weight per doz., 5 1/4 lbs.</p> | \$31.20 |

NOTE—For general description of Board Rules, see top of page 150.
 For these rules with markings other than as listed above an extra charge is made.

SPRING STEEL BOARD RULES

Dull Nickel Plated Finish.



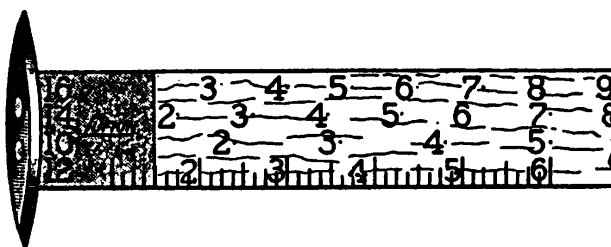
THE
LUFKIN
RULE
CO.

Extra durable yet of medium weight. Being made of best quality spring tempered steel, these rules readily bend to the board, yet return straight and hold their shape well. All regularly have oval head, exactly same as our Hickory Board Rules. Lines and figures are sunken and black and are easily read against the dull nickel plated finish of the rule, which finish also resists rust. All have 6-inch round wood handle and leather slide for handling the blade.

No.		Per Doz.
51	3-tier. Width, 1 inch. Full length, 3½ ft. Figured 36 inches. Made in 8/18 and 12/22 marking; regularly furnished in 8/18.	\$96.00
52	3-tier. Width, 1 inch. Full length, 3 ft. Figured 30 inches. Made in 8/18 and 12/22 marking; regularly furnished in 8/18.	\$84.00
58	4-tier. Width, 1¼ inch. Full length, 3 ft. Figured 30 inches. Made in 9/16 and 8/22 marking; regularly furnished in 9/16.	\$90.00

Weights per doz.: Nos. 51 and 52, 15 lbs.; No. 58, 18 lbs.

NOTE—Steel Board Rules are furnished only in the above markings.



COMBINATION BOARD AND LOG RULES

Burnt Figures. Oval Head.

These, while flexible hickory rules identical in pattern with Board Rules, carry both board and log measurements.

All are marked for 12, 10, 14 and 16 foot lengths on both sides; one side board measure, other side log scale. They are made with Doyle, Scribner, Doyle-Scribner or Decimal C Log Scale Markings, though regularly carried in stock in Doyle Scale and so supplied unless otherwise specified.

No.		Per Doz.
13	4-tier. Width, 1¼ inch. Full length, 3 ft. Figured 30 inches. Heavy brazed head (steel cap and 1½ inch brass shoulders).	\$35.40
13½	4-tier. Width, 1¼ inch. Full length, 3½ ft. Figured 36 inches. Heavy brazed head (steel cap and 1½-inch brass shoulders).	\$37.80

Weights per doz.: No. 13, 6¾ lbs.; No. 13½, 7½ lbs.

NOTE—Combination Board and Log Rules can be supplied in special markings.

SQUARE HEAD BOARD RULES

Must Be Specified If Wanted.

We stock and supply without extra charge any of our Board Rules, hickory or steel, and Combination Board and Log Rules, with square head. The square heads are of same construction as the oval, differing only in that the steel cap is of oblong shape (commonly known as square). The oval head is by far the more popular of the two and is, therefore, always furnished unless the square is specified. (The socket steel square head of No. 4 Board Rule is of different, cheaper, construction than those referred to above.)

HICKORY LOG RULES

Burnt Figures.

Used in determining the contents of logs in board measure. These rules are of selected second growth hickory, clear, tough stock. The heads are of good proportions, strong and securely attached. The handles are of the wedge type, nicely formed. The figures are large and markings and figures are burnt, making them permanent and most legible. The rules are well finished.

Log Rules are here catalogued in all the various patterns, in the scales and combination of lengths that have become standard through long use. (For further details on Log Rules see page 159.)

Scales And Markings Of Rules On This And Opposite Page (except No. 14X.)

Regular Scales (carried in stock):

Doyle. Scribner. Doyle-Scribner. Decimal C.

(Rules made also in Scribner-Doyle, Decimal A and B scales, no extra charge.)

Regular Markings:

8/20....for scaling 8, 10, 12, 14, 16, 18 and 20 foot logs.

12/24....for scaling 12, 14, 16, 18, 20, 22 and 24 foot logs.

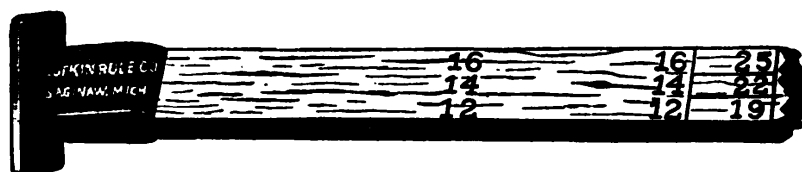
Always Specify Log Scale and Marking, as

Doyle 8/20.

Doyle 12/24.

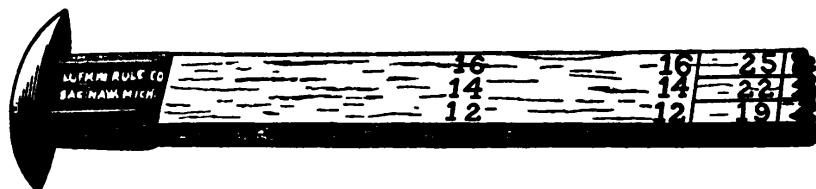
Scribner 8/20.

Scribner 12/24, Etc.



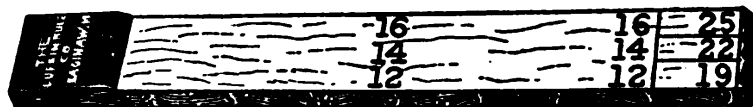
- No. 14 Square Head Log Rule. Per doz....\$33.60
Figured 48 inches, 8-inch handle. Full length 4 ft. 8 in.
Specify scale and marking, see top of page. Weight doz., 10½ lbs.

- No. 15 Square Head Log Rule. Per doz....\$26.80
Figured 36 inches, 6-inch handle. Full length 3¾ ft.
Specify scale and marking, see top of page. Weight doz., 8 lbs.



- No. 22 T-head Log Rule. (Wisconsin Pattern.) Per doz.. \$33 60
Figured 48 inches, 8-inch handle. Full length 4 ft. 8 in.
Specify scale and marking, see top of page. Weight doz., 10½ lbs.

- No. 22½ T-head Log Rule. (Wisconsin Pattern.) Per doz.. \$26.80
Figured 36 inches, 6-inch handle. Full length 3¾ ft.
Specify scale and marking, see top of page. Weight doz., 8 lbs.



- No. 19 Plain Head Log Rule (end brass capped). Per doz... \$31 20
Figured 48 inches, 8-inch handle. Full length 4 ft. 8 in.
Specify scale and marking, see top of page. Weight doz., 8 lbs.

- No. 20 Plain Log Rule, No Head. Per doz.. \$26.40
Figured 48 inches, 8-inch handle. Full length 4 ft. 8 in.
Specify scale and marking, see top of page. Weight doz., 7½ lbs.

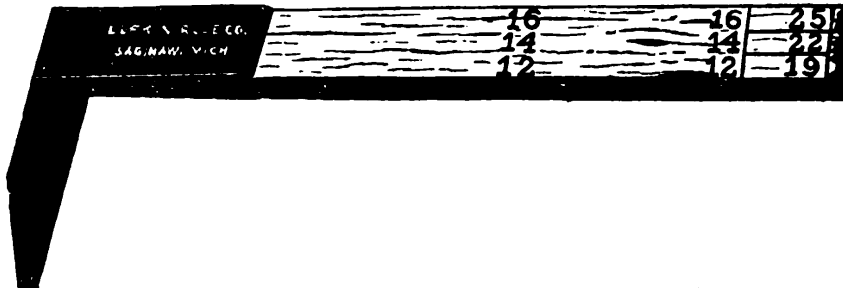
NOTE—For these rules in other log scales than mentioned above, or carrying other lengths than 8/20 or 12/24, an extra charge is made.
For Tree Tapes, see page 19.

HICKORY LOG RULES

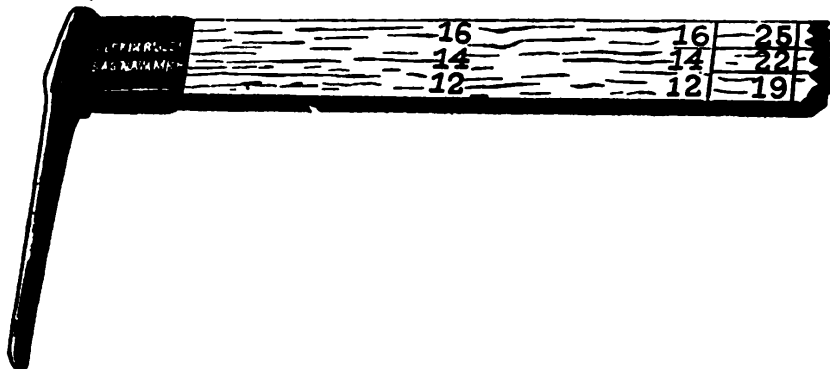
Burnt Figures.

For General Description Of These Rules, Their Scales And Markings,
See Top Page 154.

THE
LUFKIN
RULE
CO.



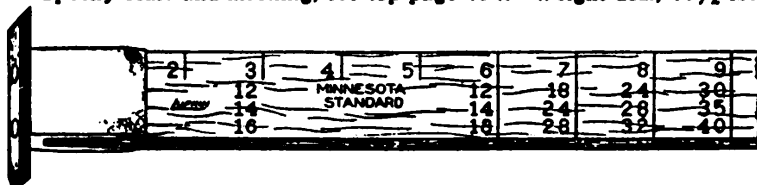
- No. 16 1/2 Flat Steel Hook Log Rule. Hook extends 3 1/2 inches. Per doz. . . . \$35.40
Figured 48 inches, 8-inch handle. Full length 4 ft. 8 in.
Specify scale and marking, see top page 154. Weight doz., 10 1/2 lbs.
(For this rule with 12-inch hook and lengths up to 6 ft. see page 156.)



- No. 16 Hook Log Rule. Per doz. . . . \$33.60
Figured 48 inches, 8-inch handle. Full length 4 ft. 8 in.
Specify scale and marking, see top page 154. Weight doz., 10 lbs.



- No. 21 Pick And Hook Head Log Rule. Per doz. . . . \$36.00
Figured 48 inches, 8-inch handle. Full length 4 ft. 8 in.
Specify scale and marking, see top page 154. Weight doz., 10 1/2 lbs.

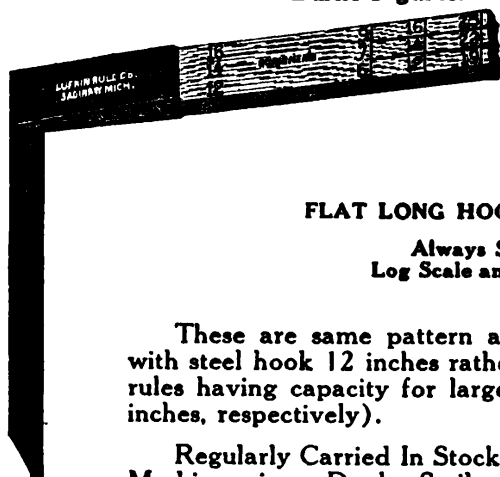


- No. 14X Minnesota Standard Log Rule. Per doz. . . . \$33.60
Figured 48 inches; no handle.
Square steel head. Handle end brass capped.
Minnesota Standard Scale.
Marked one side for 12, 14, 16; other side for 18, 20, 22 ft. lengths.
One row inches each side. Weight doz., 9 lbs.

NOTE—For rules No. 16 1/2, 16 and 21 in other than our regular log scales, or carrying other lengths than 8/20 or 12/24, extra charge is made.
United States Forest Service pattern head can also be supplied on our Log Rules. This is a flat steel, double or T hook, extending about 1/2 inch from each edge of rule. Price, same as No. 21 rule.

HICKORY LOG RULES

Burnt Figures.



FLAT LONG HOOK LOG RULES

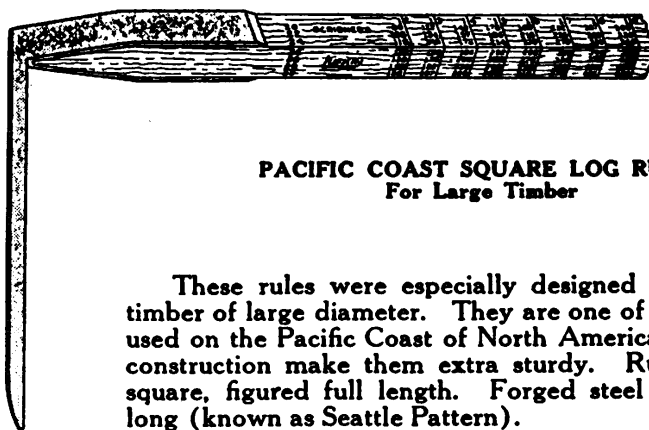
Always Specify
Log Scale and Marking

These are same pattern as No. 161½, page 155, but with steel hook 12 inches rather than 3½ inches long, and rules having capacity for large diameters (48, 60 and 72 inches, respectively).

Regularly Carried In Stock In The Standard Scales And Markings, i. e., Doyle, Scribner, Doyle-Scribner and Decimal C Scales, and Marked For 8/20 or 12/24 Foot Lengths. Inches One Edge.

No.		Wt. Per Doz.	Per Doz.
1604	Log Rule. Figured 48 inches, 8-inch handle. Full length 4 ft. 8 in. Specify scale and marking, see above.	12 lbs.	\$40.00
1605	Log Rule. Figured 60 inches, 8-inch handle. Full length 5 ft. 8 in. Specify scale and marking, see above.	15 lbs.	\$45.00
1606	Log Rule. Figured 72 inches, 8-inch handle. Full length 6 ft. 8 in. Specify scale and marking, see above.	18 lbs.	\$51.00

NOTE—For above rules in other than our standard log scales, or carrying other lengths than 8/20 or 12/24, an extra charge is made.



PACIFIC COAST SQUARE LOG RULES For Large Timber

These rules were especially designed for scaling long timber of large diameter. They are one of the types widely used on the Pacific Coast of North America. The size and construction make them extra sturdy. Rules are 7/8 inch square, figured full length. Forged steel hook 12 inches long (known as Seattle Pattern).

Scale And Marking.

These rules are regularly made only in Scribner Scale, and marked to scale even length logs from 20 to 48 feet inclusive.

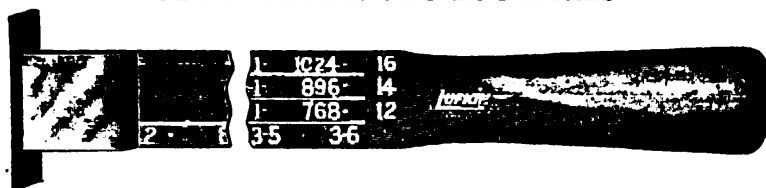
(One row of inches. Four tiers on each side.)

No.		Wt. Per Doz.	Per Doz.
1705	5-ft. Log Rule With Seattle Hook.	23 lbs.	\$81.00
1706	6-ft. Log Rule With Seattle Hook.	26 lbs.	87.60
1715	5-ft. Log Rule Without Hook (plain end).	12 lbs.	62.40
1716	6-ft. Log Rule Without Hook (plain end).	15 lbs.	69.00

NOTE—For Pacific Coast Log Rules marked other than Scribner 20/48, extra charge is made.

FLEXIBLE HICKORY LOG RULES

THE
LUFKIN
RULE
CO.



These are thin and flexible, like Board Rules, but carry regular log scale markings. Burnt figures. All are $1\frac{1}{4}$ inch wide and have board rule style 6-inch wedge handle.

Nos. 27 and 28 are without head, simply having brass cap over end, extending one inch on each side of rule.

Nos. 29 and 30 regularly have oval head, of same type as Board Rules (steel cap and $1\frac{1}{2}$ inch brass shoulders). These can be furnished with square head at same price.

SCALES AND MARKINGS

Flexible Log Rules are carried in stock in the following scales:

Doyle. Scribner. Doyle-Scribner. Decimal C.

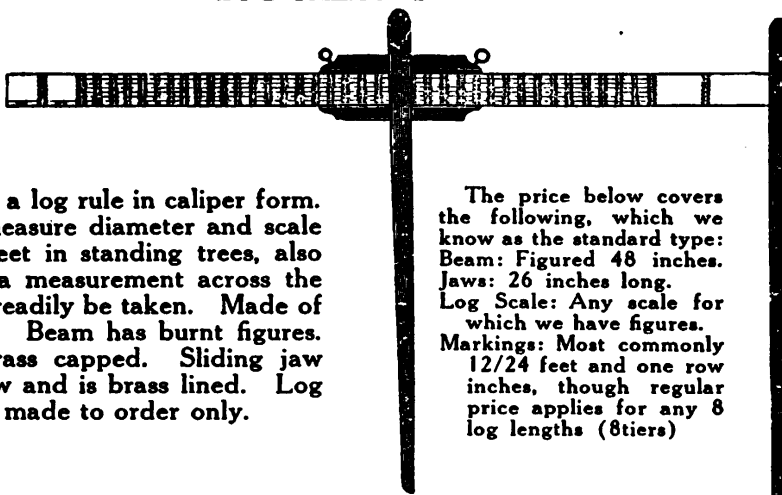
Flexible Log Rules are regularly marked one side inches and log scale for 12, 14, 16 ft.; other side 18, 20, 22 and 24 ft. lengths.

Always Specify Log Scale

No.	Rule Without Head (capped).	Length 42 in., figured 36 in.	Weight Per Doz.	Per Doz.
27	Rule Without Head (capped).	Length 48 in., figured 42 in.	5 $\frac{1}{4}$ lbs.	\$46.80
28	Rule With Oval Head.	Length 42 in., figured 36 in.	6 lbs.	48.60
29	Rule With Oval Head.	Length 48 in., figured 42 in.	6 $\frac{3}{4}$ lbs.	\$51.00
30	Rule With Oval Head.	Length 48 in., figured 42 in.	7 $\frac{1}{2}$ lbs.	52.80

NOTE—Flexible Log Rules in other scales and log lengths than mentioned above, but having not more than 8 tiers, no extra charge.

LOG CALIPERS



These are a log rule in caliper form. They will measure diameter and scale the board feet in standing trees, also logs where a measurement across the end cannot readily be taken. Made of hard maple. Beam has burnt figures. Jaws are brass capped. Sliding jaw has set screw and is brass lined. Log Calipers are made to order only.

The price below covers the following, which we know as the standard type:
Beam: Figured 48 inches.
Jaws: 26 inches long.
Log Scale: Any scale for which we have figures.
Markings: Most commonly $12/24$ feet and one row inches, though regular price applies for any 8 log lengths (8tiers)

Always Specify Log Scale And Log Lengths.

No. 25 Log Caliper (standard type) Weight each, $3\frac{1}{4}$ lbs. Price, each \$30.00

NOTE—Calipers marked inches only, price same as above.

Calipers with more than 8 tiers or with beam over 48 inches long, prices on application.

BILTMORE OR FOREST CRUISER STICK (Merritt Hypsometer)



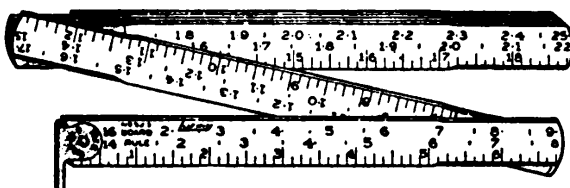
Gives Height And Diameter Of Standing Trees.

This stick is used by the United States Forest Service, by forestry schools and others in reconnaissance estimates of timber tracts. In addition to diameter and height scales it bears Decimal C Log Scale values for 16-ft. logs and a tier of regular inch markings. Made of hard maple, 37 $13/16$ inches long, $\frac{1}{2}$ inch thick, 1 inch wide, with one sloping face. Heavy cast brass ferrule at each end. Instructions for use accompany each stick.

No. 55 Biltmore Stick. Weight each, $1\frac{1}{2}$ lbs Price, each.....\$6.00

SPRING JOINT BOARD RULE

With Folding Hook.



Just the thing for the man who occasionally scales lumber; takes the place also of a pocket board scale card, and at the same time is just as handy as any rule for common lineal measuring. The folding end hook serves the purpose of board rule head and is handy for all measuring work. The rule is of hardwood, $\frac{5}{8}$ inch wide, folds to 6 inch length, is light weight and convenient to carry in the pocket. Brass plated trimmings.

MARKINGS.

Regular board measure; one side for 8, 10 and 18 foot, other side for 12, 14 and 16 foot lengths.

The 12 ft. tier, being regular inch measurement, is subdivided to 8ths of inches for general measuring purposes.

Three-Foot.

Yellow Enameled.

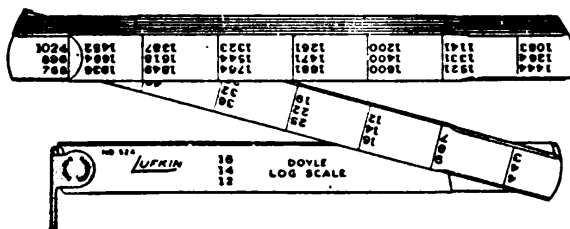
Concealed Joints.

No. 523 Spring Joint Board Rule.....Per Doz., \$5.40

Packing: $\frac{1}{2}$ doz. in a box.
Weight per doz., $1\frac{1}{4}$ lbs.

SPRING JOINT LOG RULE

With Doyle Log Scale And Folding Hook.



This rule is particularly adapted for use by traveling scalers or loggers having a limited amount of scaling to do, as it is light and compact, and when folded fits nicely in the pocket. While serving a purpose similar to that of the common hickory log rule, giving the same results in board feet, this is not a substitute for that article or of a style as well adapted to the usual run of log scaling. The folding end hook serves as log rule head and is handy in all measuring. The rule is of hardwood, $\frac{5}{8}$ inch wide, folding to 6 inch length. Trimmings are brass plated.

MARKINGS.

Furnished In Doyle Log Scale Only. Will measure diameters up to 48 inches. Marked one side for 12, 14, 16 foot logs; other side for 10 and 18 foot logs, and, on lower edge, one row inches to 16ths for general measuring.

Four-Foot.

Yellow Enameled.

Concealed Joints.

No. 524 Spring Joint Doyle Log Rule.....Per Doz., \$6.00

Packing: $\frac{1}{2}$ doz. in a box.
Weight per doz., 2 lbs.

MISCELLANEOUS INFORMATION ON LOG RULES, LOG SCALES AND MARKINGS

THE
LUFKIN
RULE
CO.

8/20 Log Rules:

Carry on one side scale for 8, 10, 16 ft.; other side 12, 14, 16 ft.; one edge 20 ft.; other edge inch marking.

12/24 Log Rules:

Carry on one side scale for 12, 14, 16 ft.; other side 18, 20, 22 ft.; one edge 24 ft.; other edge inch marking.
(Except Decimal C Rules, which have 16 ft. tier on edge.)

Dimensions:

Standard type flat log rules are approximately $\frac{1}{4}$ inch thick, $1\frac{1}{8}$ inch wide.

Inches only on Log Rules:

We supply any of our log rules in inch marking only, at regular price of stock rules. Such rules are used to determine log diameters.

Odd and Unusual Log Lengths:

We are equipped to supply, at an extra charge, rules marked for certain log lengths other than the regular combinations catalogued.

Special Log Scales:

At an extra charge we supply Log Rules in special scales for which we are equipped. For such scales, of which there are many, there is but a limited demand. Among the more familiar are Favorite, Devant-Herring, British Columbia, Columbia River and Vermont Scales.

Decimal Log Scales:

The Decimal Scale is based on Scribner. It drops the units and takes the nearest tens, thus: Scribner gives a 12-inch log 16 feet long 79 feet; Decimal Scale makes it 80 feet and is expressed on the rule with the figure 8 only. There are in use three different computations of the Decimal Scale below 12 inches, i. e., Decimal A, B and C. The Decimal C Scale is the only one of the three widely used. It is the official standard of the United States Forest Service and the legal standard in the State of Wisconsin.

Comparison Of Log Scales:

A printed table giving values of a 16-foot log in twelve different log scales will be sent on application.

Tree Tapes:

For these, see page 19.

MARKING STICK FOR LUMBER CRAYONS



A convenient holder adapted to all regular lumber crayons, and made to hold them firmly. Crayon Holder is of brass, nickel plated; handle of wood, well finished.

	Weight Doz.	Per Doz.
Marking Stick (crayon holder with handle, 36 in. long)	7 $\frac{1}{2}$ lbs.	\$36.00
Crayon Holder Only (without handle)	2 $\frac{1}{4}$ lbs.	24.00

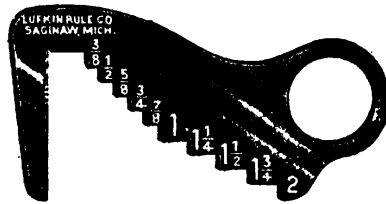
BRASS DIP ROD



For measuring diameter of logs, especially when logs are lying in water. Made of hard brass, $\frac{3}{8}$ x $\frac{3}{16}$ inch, well finished. Has $1\frac{1}{2}$ inch hook and wood handle. Plainly marked on the two sides 32 inches to half-inches. Overall length, 38 inches.

Weight per doz., 12 lbs. Price per doz. \$54.00

LUMBER GAGES

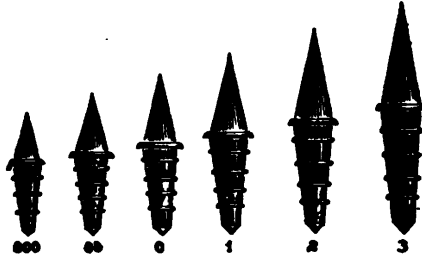


For measuring thickness of lumber. Made of brass, nickel plated; a substantial article.

No.	For Measuring Thicknesses	Weight Per Doz.	Price Per Doz.
00	$\frac{3}{8}$, $\frac{1}{2}$, $\frac{5}{8}$, $\frac{3}{4}$, $\frac{7}{8}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$, $1\frac{3}{4}$ and 2 inch.	18 ozs.	\$7.20
000	$\frac{5}{8}$, $\frac{3}{4}$, 1, $1\frac{1}{4}$, $1\frac{1}{2}$, 2 and $2\frac{1}{2}$ inch.	24 ozs.	8.40

Packing: One in a box.

BEADED BOOT CALKS



For log drivers. Forged from best crucible steel.

No.	Approximate Length overall	Weight per 1000	Price per 1000
000	$\frac{5}{8}$ inch	$2\frac{1}{4}$ lbs.	\$5.85
00	$\frac{3}{4}$ inch	$2\frac{3}{4}$ lbs.	5.85
0	$\frac{13}{16}$ inch	3 lbs.	5.85
1	$\frac{15}{16}$ inch	$3\frac{3}{4}$ lbs.	5.85
2	$1\frac{1}{16}$ inch	$5\frac{1}{2}$ lbs.	5.85
3	$1\frac{3}{16}$ inch	6 lbs.	5.85

Packing: All sizes except No. 3, 100 in a box, 1000 in a carton; No. 3 calks, 50 in a box, 500 in a carton.

BOOT CALK SETS



Hexagon in shape and of high grade hardened steel. Length overall, $4\frac{1}{2}$ inches; diameter, $\frac{1}{2}$ inch.

No.	For Nos.	Price Per doz.
1	1, 2 & 3 calks	\$8.00
0	0 calks	8.00
00	00 calks	8.00
000	000 & 000L calks	8.00

Weight per doz., $3\frac{1}{2}$ lbs.
Packing: $\frac{1}{2}$ doz. in a box.

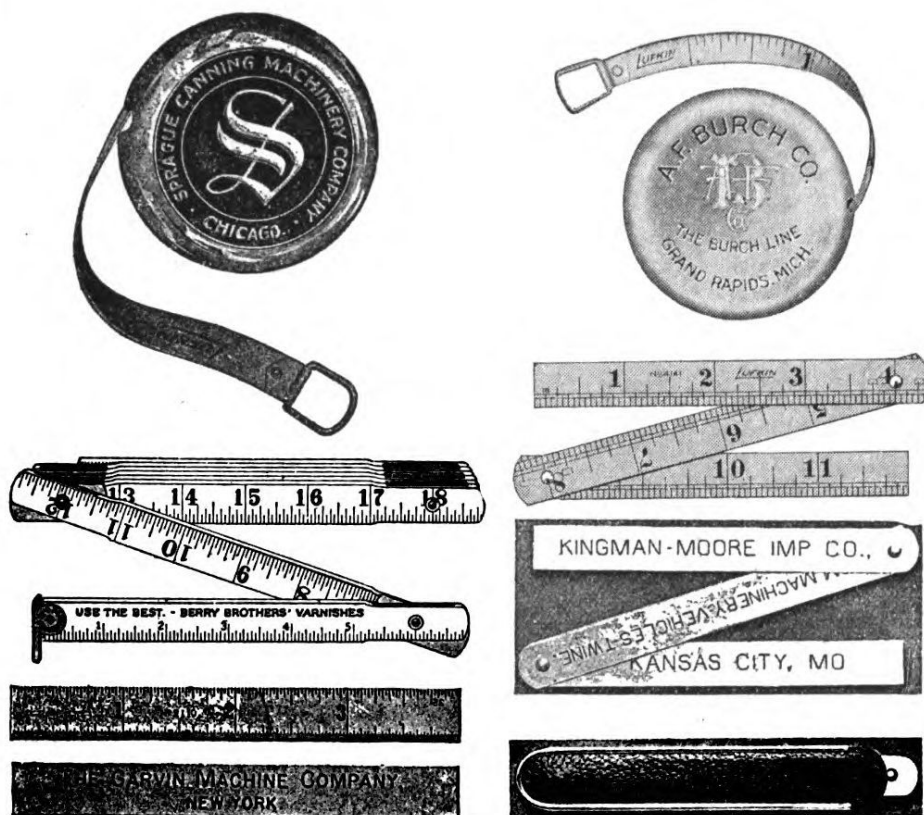
CALK SET AND PUNCH COMBINED



The combined calk set and punch is round and of tempered steel.

No.	Length	Weight Per doz.	Price Per doz.
7	4 inch	$2\frac{1}{2}$ lbs.	\$8.40

Packing: 1 doz. in a box.



ADVERTISING SPECIALTIES

Aids To An Increased Business.

If Interested, Send For Advertising Specialty Catalog No. 7.

Quite apart from our regular stock goods, but of the same general patterns and same high quality, we offer a variety of Pocket Tapes, Steel and Wood Rules for advertising purposes, i. e., bearing advertising matter upon them and intended for use as direct publicity mediums.

Pocket Tapes and Rules are most effective articles for this purpose. Their greatest appeal lies in their general usefulness. Further than this, they are a neat, compact article that everyone is pleased to carry, are moderate in price, durable, and bear the advertising attractively. They keep the advertiser's name prominently before the recipient for years. On some of our items trade marks and designs can be reproduced.

In both Tapes and Rules we confine ourselves to the better grades, articles that are really serviceable. We do not turn out tapes with celluloid or similar cases, nor do we manufacture common advertising yard sticks and school rulers.

Above are shown but a few of the items in our line. If you are thinking of distributing a novelty to your trade, or could interest any of your customers in something of this kind, write for particulars.

Catalog No. 7 is a 32-page booklet devoted entirely to this branch of our business.

ALPHABETICAL INDEX

ARTICLE	PAGE	ARTICLE	PAGE
Advertising Specialties....	161	Folding Boxwood Rules..	119-126
All Stainless Crescent Tape-Rule	118A	Folding Steel Rules	112-115
Aluminum Rules	136	Frame Steel Tapes.....	22-28
Aluminum Rules with Hook	136	Freight Rules	140
Architects Pocket Tapes...	42		
Aristocrat Tape-Rule.....	118B	Gagers Steel Tapes.....	26-28
Arrows, Surveyors	31	Gages—	
Artisan Steel Tapes	37	Boxwood Caliper	125
Artisan Tree Tape	19	Lumber	160
Ass Skin Tapes	50	Gaging Rods	141
Atlas Oil Gaugers Tapes..	26	Glass Boards	142
		Glass Cutters Rules	143
Babbitt Metal Chain Tapes	35	Glaziers Rules	143
Banner Steel Tapes.....	17	Graduations, Steel Tapes..	44, 58
Bevel, Ship Carpenters....	126		
Biltmore Stick	157	Hickory Boards Rules ..	149-153
Blacksmiths Rules ...	112, 116	Hickory Log Rules ..	154-157, 159
Blindmans Rules	121	Hiway Drag Tape.....	35A
Board Rules.....	149-153, 158	Hook Rules, Aluminum ...	136
Board, Glass Cutting	142	Hook Rules, Spring Joint..	131
Bobs, Plumb	30	Hook Stave Rules	126
Boot Calks	160	Hooks, Steel Tape.....	30
Boxwood Rules	119-126		
Boxwood Caliper Rules..	124, 125	Instantaneous Readings ...	12
Boxwood Extension Rules..	133		
Boxwood Shrink Rules....	139	Junior Metallic Tapes.....	48
Brass Rules	116		
Bronze Tapes	29	L Squares, Glass Cutters..	144
Calipers—		Lip Rules, Glass Cutters...	143
Log or Tree	157	Linen Corded Tapes	52-55
Caliper Gages, Boxwood...	125	Linen Pocket Tapes	56
Caliper Rules, Boxwood..	124, 125	Linen Tapes	46-49
Calks, Boot and Shoe.....	160	Lock Handle Frame Tapes..	25
Calk Sets	160	Log Calipers	157
Chain Tapes	32-35	Log Rules.....	149, 154-159
Challenge Steel Tapes 12, 13, 18		Lumber Gauges	160
Challenge Jr. Steel Tapes..	14	Lumber Rules	149-159
Circumference Rules ..	112, 117		
Clamp Handle	30	Machine Divided Rules	
Counter Rules, Brass	116	108-112, 114, 115	
Crayon Holder	159	Magic Pattern Rule	118
Crescent Tape-Rule	118A	Manual Training Rules	
Crescent All Stainless		107, 126, 138	
Tape-Rule	118A	Maple Extension Rule.....	133A
Crescent Junior Tape-Rule..	118B	Marking Stick	159
Cripple Creek Reel.....	36	Marvel Pocket Linen Tapes	56
Cruiser Stick	157	Marvel Pocket Steel Tapes	41
Curve Sticks, Tailors.....	146	Measuring Tapes	7-58
		Metallic Tapes	46-48
Decimetre Rule	108	Metallic Tape Lines Only..	48
Diameter Tapes	18, 19, 37	Metre Sticks	145
Dip Rod	159	"Michigan" Chain Tapes..	35
Drag Tapes, Hiway.....	35A	Millmens Steel Tapes....	38
Dressmakers Squares..	147, 148	Miscel. Wood Rules....	137-148
Engineers Patt. Tapes 20-22, 25		Nubian Finish	7
Engineers Pattern Frame		Narrow Spring Joint Rules..	132
Tapes	22, 25		
Extension Rules	140	Oil Gagers Steel Tapes....	26-28
Extension Rules, Boxwood..	133		
Extension Rules, Maple...	133A		
Flat Wood Rules	138		
Flexible Log Rules	157		
Folding Aluminum Rules..	136		

ALPHABETICAL INDEX—Continued

ARTICLE	PAGE	ARTICLE	PAGE
Perfection Glass Boards...	142	Squares, Try and Mitre...	84
Phosphor Bronze Tapes ..	29	Stainless Steel Tapes	12A
Plumb Bobs	30	Standards and Standardiza-	
Plumb Bob Steel Tapes...	26-28	tions	7
Pocket Linen Tapes	56	Steel Scales ...	108-111
Pocket Steel Tapes	39-42	Steel Board Rules	153
Pocket Tapes	39-42, 56, 58	Steel Pocket Tapes	39-42
		Steel Rules	107-115, 117
Railroad Tapes, Babbitt		Steel Tapes	7-44
Metal	35	Steel Tape Lines Only	29
Railroad Tapes, "Universal"	52	Steel Tapes, General	
"Red End" Rules.130, 130A-131		Information	7, 43, 44
Reels, Chain Tape	32-36	Sterling Tapes	49
Reference Tables, Mechanics	108	Strike Plate Rules	130-131
Reliable Steel Tapes	8-10	Surveyors Chain Tapes...	32-35
Reliable Jr. Steel Tapes...	11		
Rival Steel Tapes	15	T Squares, Glass Cutters..	144
Rival Jr. Steel Tapes	16	Tailors Measuring Sticks..	146
Rods, Gaging and Wantage	141	Tailors Squares	147, 148
Rules—		Tailors Tapes	57
Boxwood Extension	133	Tape Hooks	30
Boxwood Folding	119-126	Tapes, Measuring	7-58
Contraction	112	Tape-Rules	118A-118C
English Pattern Steel	109-112	Tapes, Steel	7-44
Extension.....	133, 140	Tapes, Woven	45-58
Flat Wood	138	Temperature Scale	29
Folding Steel	112-115	Tension Handle	30
Glass Cutters and		Threader	46-48
Glaziers	143	Tinners Rules	117
Magic Pattern	118	Tree Tapes	19
Maple Extension	133A	Try and Mitre Squares ...	84
Miscellaneous Wood..	137-148	"Two Way—Red End"....	130A
Shrink	107, 139		
Spring Joint	127-136	Universal Pocket Tapes ..	57
Steel	107-115, 117	Universal Tapes	50-55
Tinners and Circumfer-		Universal Steel Tapes	17A
ence	117	Universal Try and Mitre	
		Squares	84
Scales, Steel	108-111		
Ship Carpenters Bevel.....	126	Wantage Rods	141
Shoe Size Sticks	141	"Western" Tape	22A
Shoulders, Chain Tape	36	Wolverine Steel Tapes	21
Shrink Rules, Boxwood ...	139	Woven Pocket Tapes	56, 57
Shrink Rules, Steel.....	107	Woven Tapes	45-58
Size Sticks, Shoemakers ..	141	Woven Tapes, General	
Special Graduations on		Information	58
Tapes	44, 58		
Spoke Caliper Rule	126	Wizard Tape-Rule	118C
Spring Joint Rules.....	127-136		
Spring Joint Board Rule...	158	Yard Sticks	145, 146
Spring Joint Hook Rules..	131	Yard and Quarter Sticks ..	146
Spring Joint Log Rules....	158		
Squares, Glass Cutters....	144		
Squares, Tailors	147, 148		

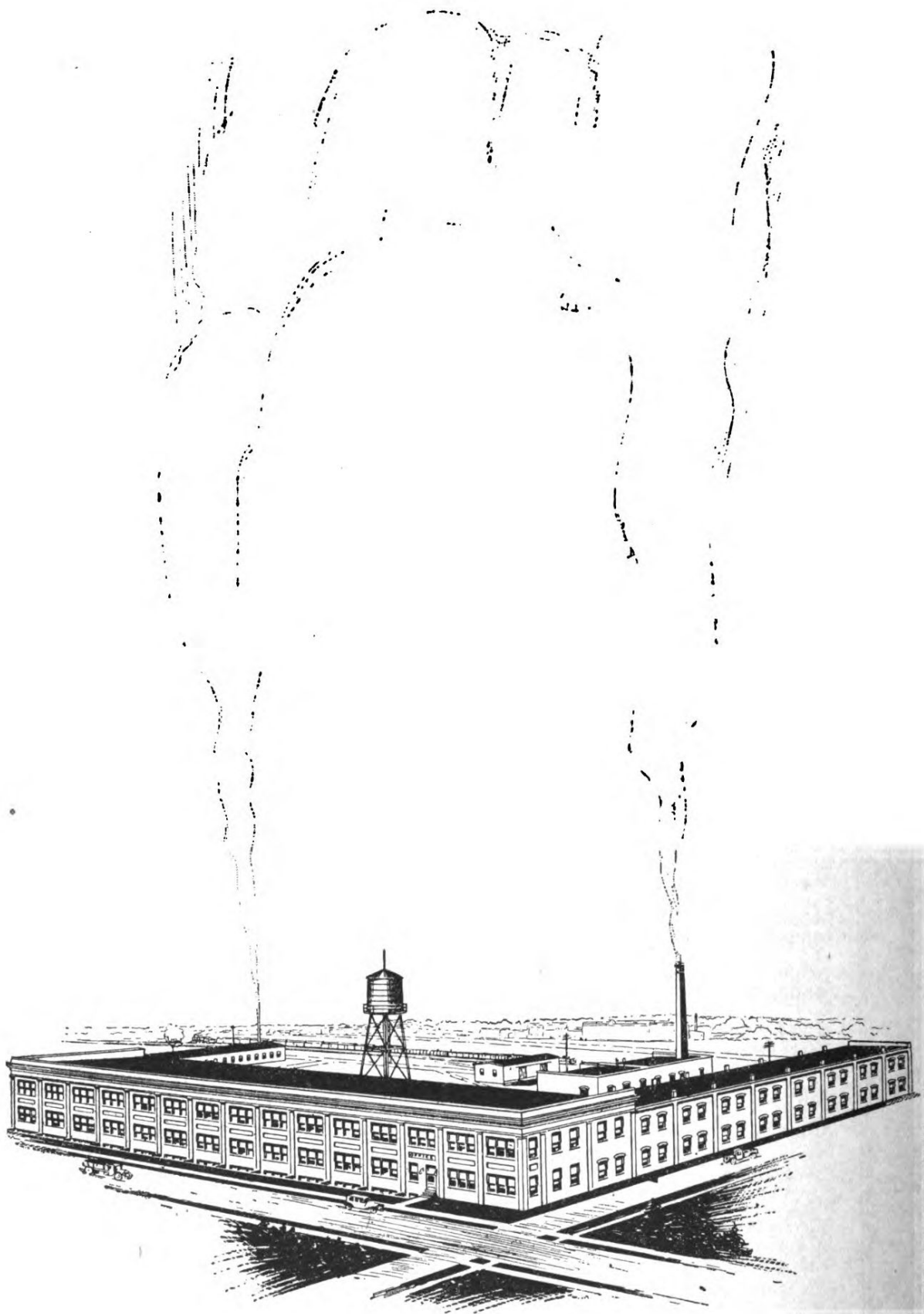
NUMERICAL INDEX

All letter suffixes applying to stock numbers below, such as D, M, EM, ME and others, are not here listed, but items carrying such numbers will be found on page here shown opposite the number, i. e., tape No. 260D is on page indicated for stock No. 260, etc.

NUMBER	PAGE	NUMBER	PAGE	NUMBER	PAGE
0, 00, 000	160	165	58	823-826	139
01, 01N	151	171, 172	124	851	120
02, 02N, 02XN	151	173-176	56	861	121
03	151	186	118B	861A	121
08	151	188	56	862C	124
014, 016	125			863L	122
024, 026	125	200-207	8	873L	122
041	115	231-236	20	881	122
046, 047	126	240-246	15		
053-058	130	260-267	12	930-936	54
056D	130	260C, 263C	18	940-946	55
063-068	130	S260-S266	12A	966	130A
064F-068F	130	261P, 263P	18		
H056	131	261TP, 263TP	19	1020-1026	53
H066	131	271-278	22	1030-1036	53
066D	130	280-288	23	1063-1069	116
0400-0406	49	280-283 with 588	27	1085	116
0500-0506	48	290-298	24		
0600-0606	48	290-293 with 588	27	1131, 1132	113
0660-0664	48	300-307	9	1141-1143	113
		341-346	10	1162-1164	113
1	150, 160	351-356	10	1172-1178	114
1N, 1XN	150	360-367	13		
2	150, 160	S360-S366	12A	1203-1206	136
2N, 2XN	150	372	124	H1204-H1206	136
2½	150	386-388	124	1240-1246	16
3	150, 160	391-398	42	1260-1266	14
4	152			1271-1276	25
6	152	400-406	49	1276D-XX,	
7	160	471-473	57	01276D-XX	22A
8	152	491-493	57	1281-1286	25
10	152			1280-1283 with	
13, 13½	153	500-506	46	588	28
14	154	523, 524	158	1291-1296	25
14X	155	540-546	17A	1290-1293 with	
15	154	H540-H546	17A	588	28
16, 16½	155	550-556	17	1291S, 1293S	26
19, 20	154	551, 552	30		
21	155	552½	30	1306D	136
22, 22½	154	560-566. See No.	540	H1306D	136
25	157	584-589	30	1373-1377	21
27-30	157	590	30		
34¼, 34½	138	591-597	31	1510, 1512	40
42	126			1512CH	38
X46	133A				
50	152	600-606	47	1604-1606	156
51, 52	153	651	120	1686	118C
55	157	660-664	48	1696	118B
58	153	671-673	57		
60, 62	107	671-A, 673-A	57	1705, 1706	156
65, 65L	84	686, 688	118C	1715, 1716	156
80	112	691-693	57		
85, 86	112	691-A, 693-A	57	1914	36
90 A to R	107	696	118A		
95, 96	117	S696	118A	2041-2043	115
97½, 98, 99	108			2066, 02066	35
				2082M, 02082M	35
100-106	11	703	126		
108	37	710-716	50	2100, 02100	35
112	37	720-726	51	2100M, 02100M	35
112CH	38	730-736	52	2110D, DM	109
115	37	751-752	120	2111D	109
120	37	760, 761	120	2132, 02132	35
120TP	19	762B	121	2150, 02150	35
143-148	39	771	122	2164M, 02164M	35
153-158	40	780, 781	122		
		781C	124	2200, 02200	35

NUMERICAL INDEX—Continued

NUMBER	PAGE	NUMBER	PAGE	NUMBER	PAGE
2300, 02300	35	4883	123	7521ME, 7522ME	135
2328M, 02328M .	35			7521MM, 7522MM	135
		5066, 05066	32	7521MEB,	
2500, 02500	35	5082M, 05082M .	32	7522MEB ..	135
2700-2707	111	5100, 05100	32	7611ME, 7612ME	134
2710-2712	112	5100M, 05100M .	32		
2721-2723	109	5132, 05132	32	8120, 8121	141
2781, 2783	112	5150, 05150	32	8130-8135	147
		5164M, 05164M .	32	8140, 8142	148
				8147ME, 8148ME,	
3066, 03066	35	5200, 05200	32	MM	148
3082M, 03082M .	35			8151, 8152	146
		5300, 05300	32		
3100, 03100	35	5328M, 05328M .	32	8201-8209	139
3100M, 03100M..	35			8211-8218	139
3132, 03132	35	6066, 06066	33	8221, 8223	141
3143-3146	41	6082M, 06082M .	33	8231-8238	147
3150, 03150	35			8240-8246	148
3164M, 03164M .	35	6100, 06100	33	8248ME, MM ...	148
3173-3176	56	6100M, 06100M .	33	8251-8255	139
		6132, 06132	33		
3200, 03200	35	6150, 06150	33	8514-8516	128
		6164M, 06164M .	33	8512EM—8516EM	134
3300, 03300	35			8514EMB	134
3328M, 03328M .	35	6200, 06200	33	8522-8528	129
				8522EM-8526EM	135
3500, 03500	35	6300, 06300	33	8524F-8526F	129
		6328M, 06328M .	33	8524EMB	135
3752B	121			H8524-H8528 ..	131
		6500, 06500	33	X8536	133
3851	123	7030, 7031	146		
3861	123			8614-8616	128
3881	123	7111ME, 7112ME	145	8622-8628	129
		7115, 7116	145	8624EM, 8626EM	135
4066, 04066	34	7121, 7122	145	8624F-8626F ...	129
4082M, 04082M .	34	7124-7128	146	H8624-H8628 ..	131
		7129	145		
4100, 04100	34	7131-7135	138	9050, 09050	35A
4100M, 04100M .	34	7131 ½-7135 ½ ..	138		
4132, 04132	34	7136-7149	143	9100, 09100	35A
4141-4144	114	7155, 7156	140	9150, 09150.....	35A
4150, 04150	34	7162-7166	140		
4164M, 04164M .	34	7181-7188	141	9200, 09200	35A
4200, 04200	34	7284	141	9300, 09300	35A
4300, 04300	34	7422-7429	145	9524D-9526D ...	132
4328M, 04328M .	34			9526, 9528	129
		7511ME, 7512ME	134		
4500, 04500	34	7511MM, 7512MM	134	9616DD	132
4503, 4504	132	7511MEB, ..		9624D-9626D ...	132
		7512MEB ..	134	9626, 9628	129
4603, 4604	132				
4642-4644	114				



FACTORY AND OFFICE
THE LUFKIN RULE CO. OF CANADA, LTD.
WINDSOR, ONTARIO

